OT Programmer

OPTOTRONIC® LED Power Supply Configuration Tool User Manual V2.4.1

March 2015

OSRAM

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1. Introduction

The OPTOTRONIC LED power supply configuration tool is a graphical user interface that allows the user to program and configure the operating parameters of the OPTOTRONIC Programmable LED power supplies. The interface helps to set the desired output current of the power supply within its range of output current. It gives the flexibility to enable/disable the features like “Dimming”, “AstroDIM”, “LEDset”, “Auxiliary output”, “LED Thermal Protection”, “Constant lumen module” & “End-of-life indicator”. Custom part numbers for a given OPTOTRONIC LED driver model can also be defined. The user can save the profile for a particular power supply & recall when necessary. The interface will also allow the user to program same profile for the desired number of power supplies by connecting one after other with just one click. The user interface is capable of supporting the bar code scanner inputs to program the parameters of an OPTOTRONIC LED power supply. It also provides an option to either enable or disable logging of the parameters of power supplies to an excel file.

Note: *The programming of the LED power supplies does not need a connection to AC power source. The OT Programmer and the driver during programming mode are powered through the USB port of a computer*.

1.1. Compatible OPTOTRONIC Programmable LED power supplies

NAED	Ordering Abbreviation
79441	OT40W/PRG1400C/UNV/DIM-1/J
79442	OT40W/PRG1400C/UNV/DIM-1
79448	OT40W/PRG1400C/UNV/DIM
79449	OT40W/PRG1400C/UNV/DIM/J
79403	OT25W/PRG1250C/UNV/DIM
79404	OT25W/PRG1250C/UNV/DIM/J
79405	OT25W/PRG1250C/UNV/DIM-1
79406	OT25W/PRG1250C/UNV/DIM-1/J
79466	OT30W/PRG1050C/UNV/DIM-1/L AUX
79397	OT30W/PRG1050C/UNV/DIM/L AUX
79630	OT30W/PRG1050C/UNV/DIM/L
79468	OT48W/PRG2000C/UNV/DIM-1/L AUX

NAED	Ordering Abbreviation
79399	OT48W/PRG2000C/UNV/DIM/L AUX
79632	OT48W/PRG2000C/UNV/DIM/L
79467	OT50W/PRG1400C/UNV/DIM-1/L AUX
79398	OT50W/PRG1400C/UNV/DIM/L AUX
79631	OT50W/PRG1400C/UNV/DIM/L
79370	OT50/UNV/800C/2DIMLT2/P6
79371	OT50/UNV/1250C/2DIMLT2/P6
79368	OT100/UNV/800C/2DIMLT2/P6
79369	OT100/UNV/1250C/2DIMLT2/P6
79366	OT180/UNV/800C/2DIMLT2/P6
79367	OT180/UNV/1250C/2DIMLT2/P6

NAED	Ordering Abbreviation
AA68626	OT 50/120-277/800 2DIMLT2 P
AA68629	OT 50/120-277/1A2 2DIMLT2 P
AA68630	OT 100/120-277/800 2DIMLT2 P
AA68631	OT 100/120-277/1A2 2DIMLT2 P

NAED	Ordering Abbreviation
79470	OTi 85 Linear 2000mA
79471	OTi 85 Linear 2600mA

1.2. PC system requirements

The minimum PC requirements to install and run OT Programmer tool are:

- 1GHz processor
- 512MB RAM
- 1 USB Port (v2.0)
- Microsoft Windows XP or higher®
- .NET framework version 4.0 or higher*
- FTDI drivers*
- Adobe Reader 9.5* or higher
- Microsoft Excel 2000 or higher (for logging feature)

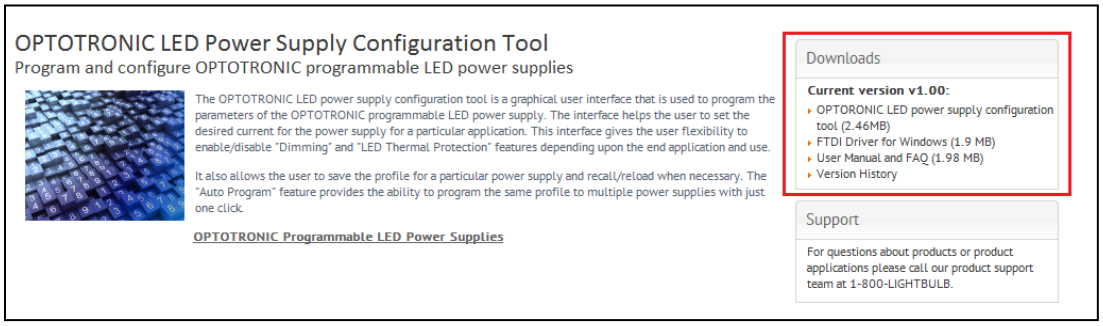
** Available for download here* under downloads section on the right of the webpage.

1.3. Hardware requirements

- 51645 OT Programmer (Includes USB Type A to B cable & Programming cable)
- 51646 OT Programming nest (OPTIONAL) (Includes Programming cable)
- 51647 OT LINEAR Hand-Held PRG TOOL (OPTIONAL) (Includes Programming cable)
- 51648 OTLinearAutoPRGTool (OPTIONAL) (Includes Programming cable)
- 51360 OTOutdoorPGRMTool (OPTIONAL) (Includes Programming cable)
- Driver(s) from the compatible LED power supplies list
- Linear Image Barcode Scanner (OPTIONAL)

The OT Programmer OPTOTRONIC LED power supply configuration tool can be downloaded from the following address under downloads section.

http://www.sylvania.com/en-us/tools-and-resources/Pages/LED_power_supply_configuration.aspx

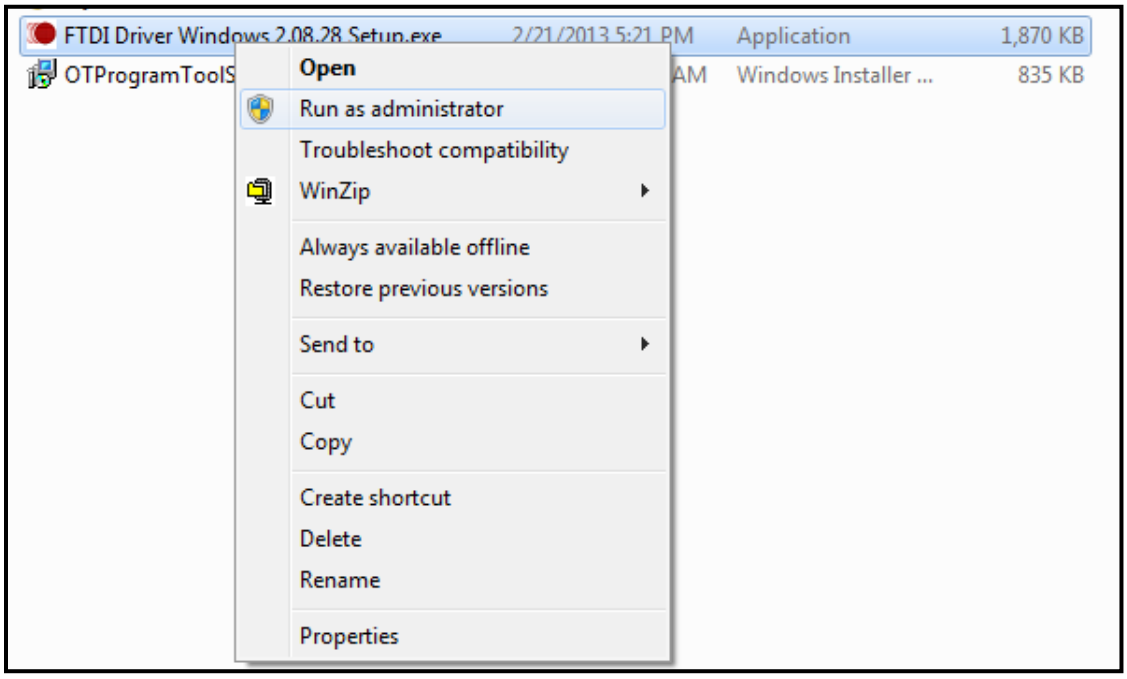

OPTOTRONIC LED Power Supply Configuration Tool
Program and configure OPTOTRONIC programmable LED power supplies
The OPTOTRONIC LED power supply configuration tool is a graphical user interface that is used to program the parameters of the OPTOTRONIC programmable LED power supply. The interface helps the user to set the desired current for the power supply for a particular application. This interface gives the user flexibility to enable/disable "Dimming" and "LED Thermal Protection" features depending upon the end application and use.
It also allows the user to save the profile for a particular power supply and recall/reload when necessary. The "Auto Program" feature provides the ability to program the same profile to multiple power supplies with just one click.
OPTOTRONIC Programmable LED Power Supplies
Downloads
Current version v1.00:
OPTORONIC LED power supply configuration tool (2.46MB)
FTDI Driver for Windows (1.9 MB)
User Manual and FAQ (1.98 MB)
Version History
Support
For questions about products or product applications please call our product support team at 1-800-LIGHTBULB.

2. Installing the OT Programmer

Step 1: Download the OPTOTRONIC LED Power supply configuration tool and save the file at desired location.

Step 2: Download the FTDI Driver for windows and save the file at a desired location

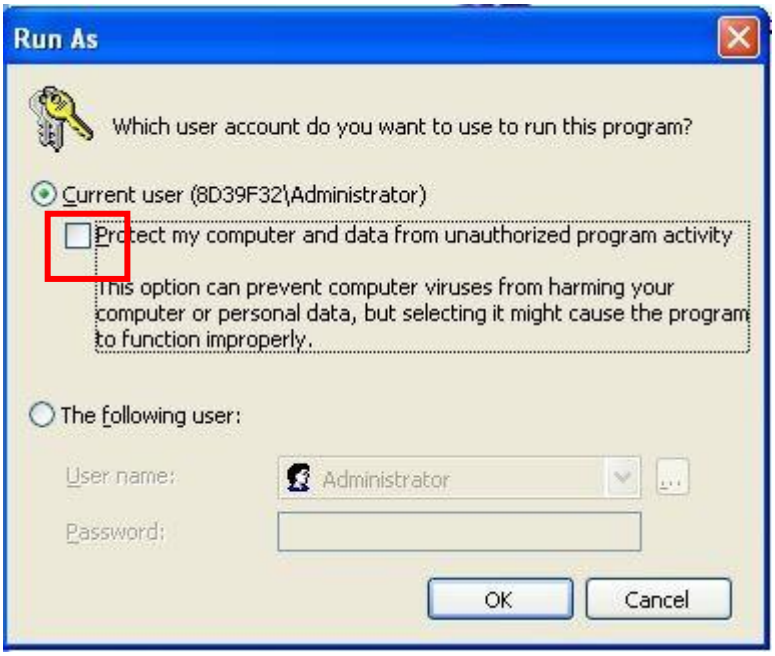
Step 3: Open the folder where the FTDI driver for windows is saved. Right click on the setup file to Run as administrator/ Install (Depending upon the Windows operating system) & click it



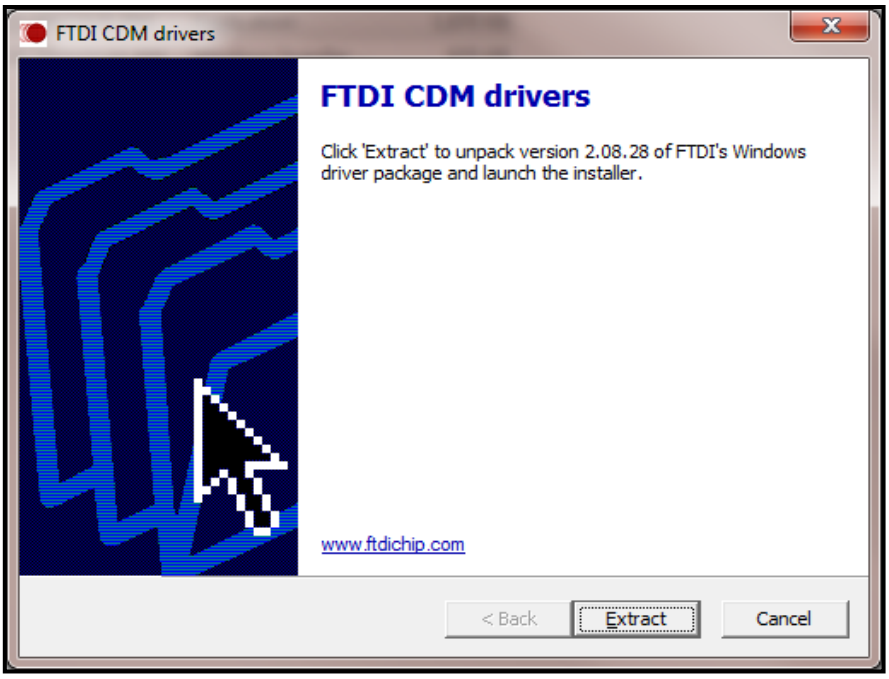
Note 1: During some installation instances on Windows XP or Windows Vista there might be some additional windows pop-up messages depending upon the User accessibility. Please select the appropriate options depending upon user agreeability.

User Account Control message for FTDI driver installation on a Windows Vista operating system

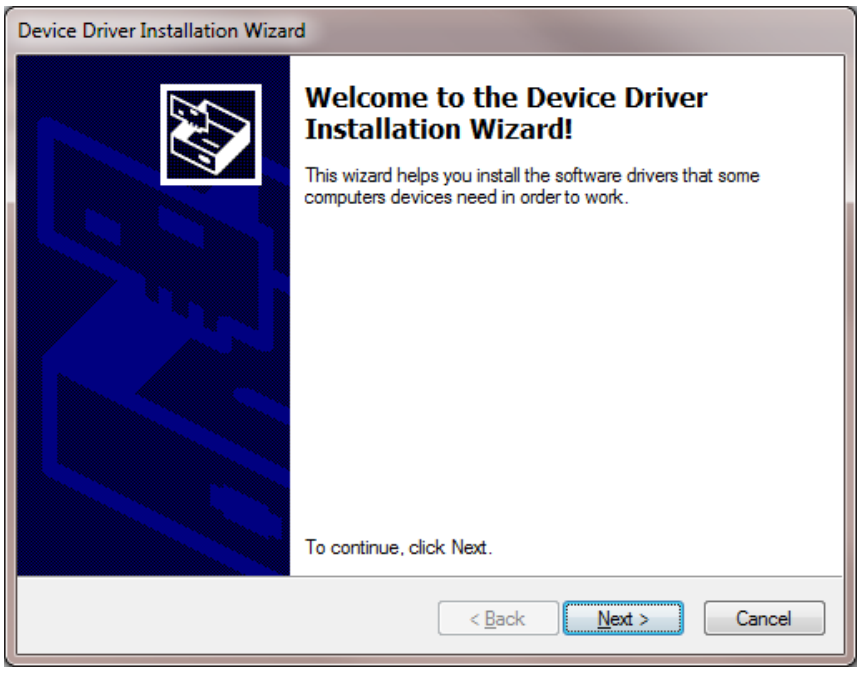
Installation of the FTDI driver on a Windows XP operating system may pop-up messages as below. Select the appropriate user account and uncheck the box to continue with the installation.


Run As
Which user account do you want to use to run this program?
Current user (8D39F32\Administrator)
Protect my computer and data from unauthorized program activity
This option can prevent computer viruses from harming your computer or personal data, but selecting it might cause the program to function improperly.
The following user:
User name:
Administrator
Password:
OK
Cancel

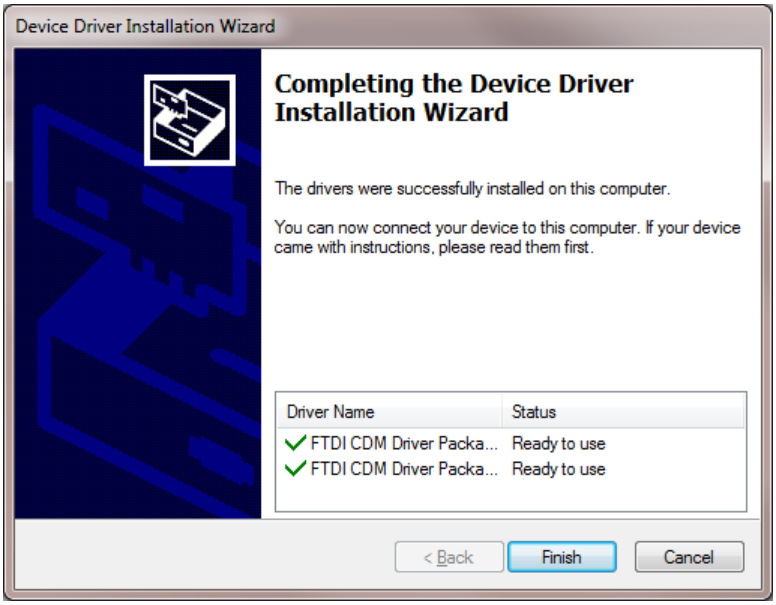
Step 4: Click “Extract” on the installation window



Step 5: After the extraction process the Device Driver Installation Wizard is opened. Click next to continue

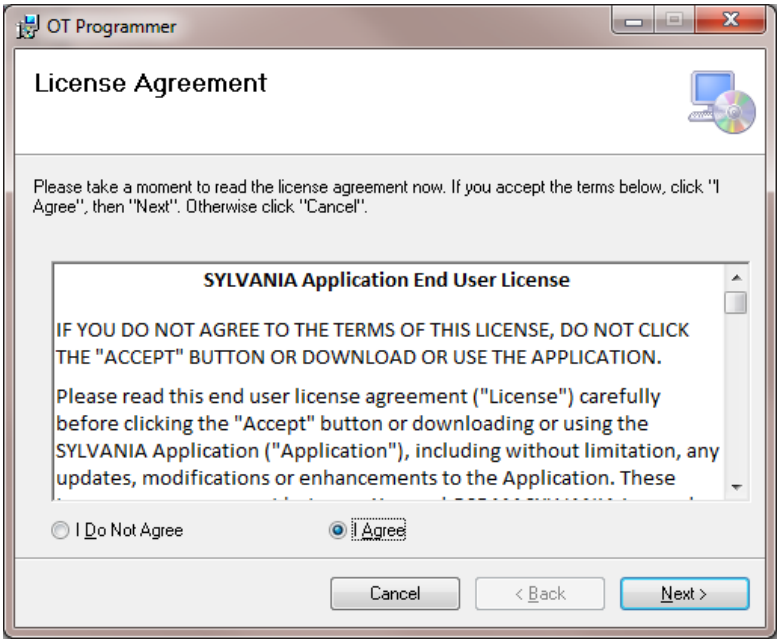

Device Driver Installation Wizard
Welcome to the Device Driver Installation Wizard!
This wizard helps you install the software drivers that some computers devices need in order to work.
To continue, click Next.
< Back
Next >
Cancel

Step 6: Installation will be completed & click finish to proceed.


Device Driver Installation Wizard
Completing the Device Driver Installation Wizard
The drivers were successfully installed on this computer.
You can now connect your device to this computer. If your device came with instructions, please read them first.
Driver Name
Status
FTDI CDM Driver Packa...
Ready to use
FTDI CDM Driver Packa...
Ready to use
< Back
Finish
Cancel

By finishing the above steps you are ready to install the OT Programmer Tool setup file.

Step7: From the package downloaded for installation of the tool, identify the "OTProgramToolSetup.msi" & either do a double click or right click options & install. Read the License Agreement and if you agree to the terms and conditions select the "I Agree" & click "Next"


OT Programmer
License Agreement
Please take a moment to read the license agreement now. If you accept the terms below, click "I Agree", then "Next". Otherwise click "Cancel".
SYLVANIA Application End User License
IF YOU DO NOT AGREE TO THE TERMS OF THIS LICENSE, DO NOT CLICK THE "ACCEPT" BUTTON OR DOWNLOAD OR USE THE APPLICATION.
Please read this end user license agreement ("License") carefully before clicking the "Accept" button or downloading or using the SYLVANIA Application ("Application"), including without limitation, any updates, modifications or enhancements to the Application. These
I Do Not Agree
I Agree
Cancel
< Back
Next >

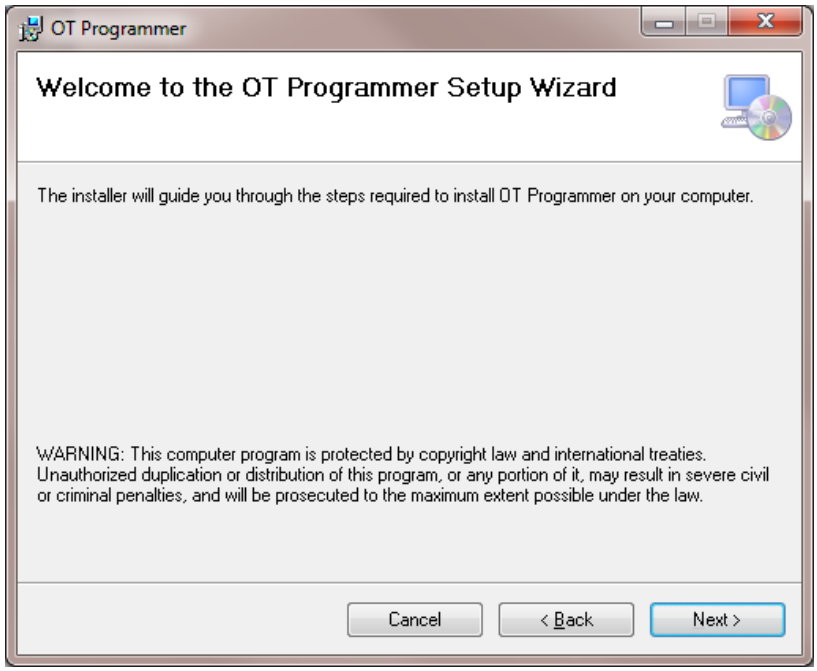
Note 2: In addition to Note 1 explained earlier some OT Programmer installation instances on different Windows Operating systems there might be some additional windows pop-up

messages depending upon the User accessibility. To continue to allow installation of the program, please allow access to the User Access Control prompt

User Account Control message for OT Programmer driver installation on a Windows Vista operating system

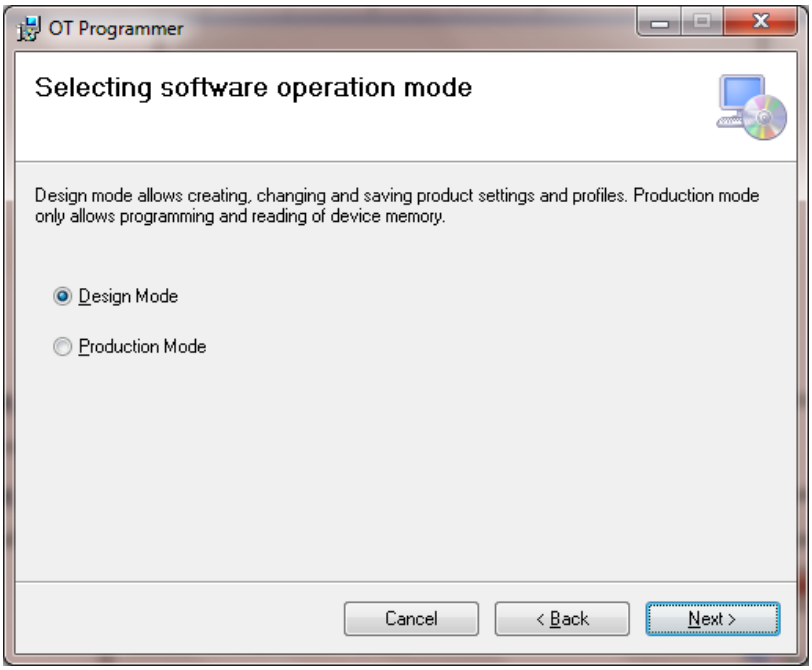
User Account Control
An unidentified program wants access to your computer
Don't run the program unless you know where it's from or you've used it before.
Z:\VM Shared Folder\OT Programmer\OTProgramToolSetup.msi
Unidentified Publisher
Cancel
I don't know where this program is from or what it's for.
Allow
I trust this program. I know where it's from or I've used it before.
Details
User Account Control helps stop unauthorized changes to your computer.

Step 8: Click 'Next' to proceed

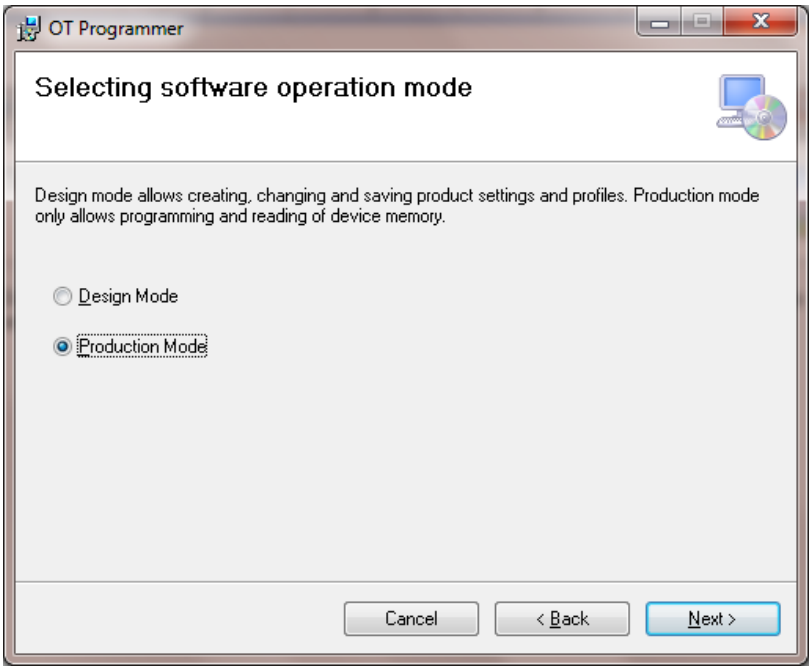

OT Programmer
Welcome to the OT Programmer Setup Wizard
The installer will guide you through the steps required to install OT Programmer on your computer.
WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law.
Cancel
< Back
Next >

Step 9: Select the desired Software operation mode. Click the radio button next to the operation mode and Click 'Next'

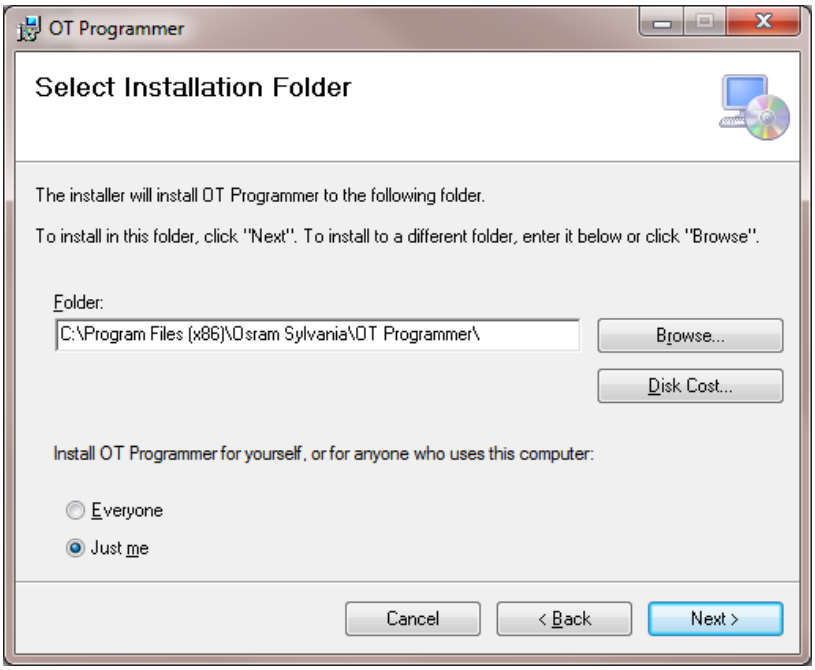
Design Mode- allows to create, modify and saving LED driver settings & profiles


OT Programmer
Selecting software operation mode
Design mode allows creating, changing and saving product settings and profiles. Production mode only allows programming and reading of device memory.
Design Mode
Production Mode
Cancel
< Back
Next >

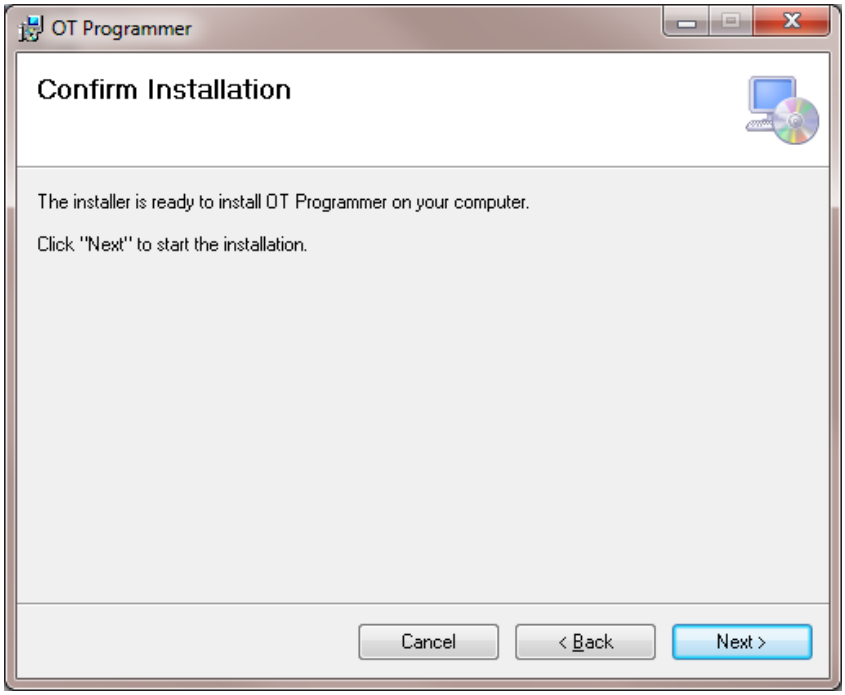
Production mode allows only programming and reading the memory or the settings of the LED power supply


OT Programmer
Selecting software operation mode
Design mode allows creating, changing and saving product settings and profiles. Production mode only allows programming and reading of device memory.
Design Mode
Production Mode
Cancel
< Back
Next >

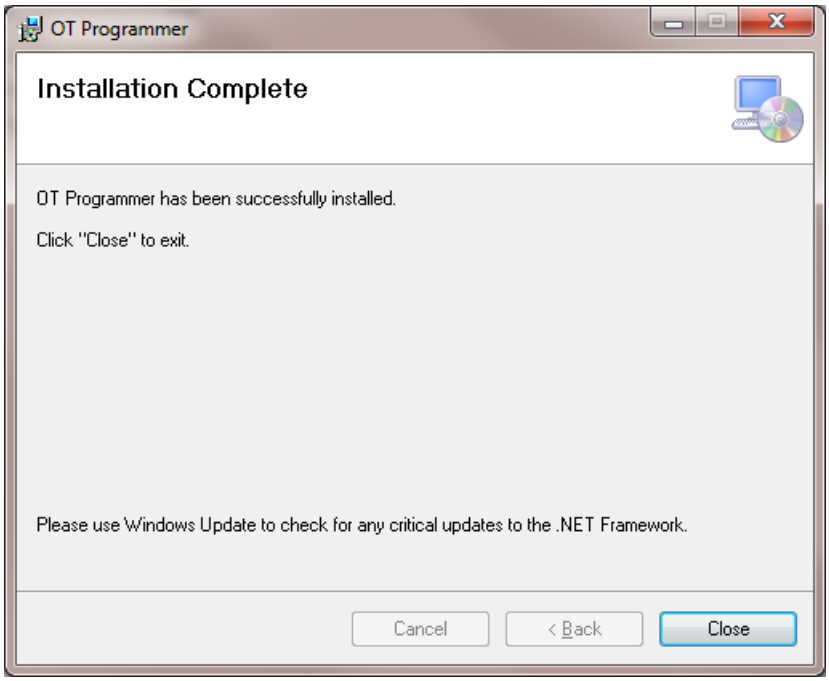
Step 10: Select the destination folder if different from automatic location selected by the installer. Select the permissions to install this program only for the user or everyone. Click Next


OT Programmer
Select Installation Folder
The installer will install OT Programmer to the following folder.
To install in this folder, click "Next". To install to a different folder, enter it below or click "Browse".
Folder:
C:\Program Files (x86)\Osram Sylvania\OT Programmer\
Browse...
Disk Cost...
Install OT Programmer for yourself, or for anyone who uses this computer:
Everyone
Just me
Cancel
< Back
Next >

Step 11: Confirm installation by Clicking Next

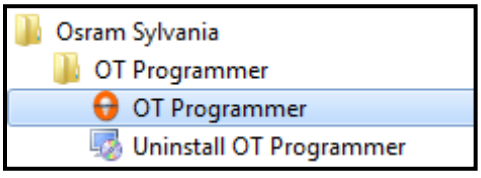

OT Programmer
Confirm Installation
The installer is ready to install OT Programmer on your computer.
Click "Next" to start the installation.
Cancel
< Back
Next >

Step 12: Installation is complete. Click close

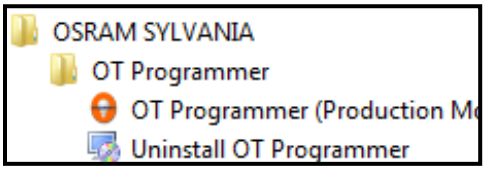

OT Programmer
Installation Complete
OT Programmer has been successfully installed.
Click "Close" to exit.
Please use Windows Update to check for any critical updates to the .NET Framework.
Cancel
< Back
Close

Now the OT Programmer tool for OPTOTRONIC Programmable LED power supplies is successfully installed and ready to use.

To launch the program go to the start button & expand all programs. A new folder named OSRAM SYLVANIA is created. Expand the folder to find the “OT Programmer” shortcut. Click to launch the application.



OR

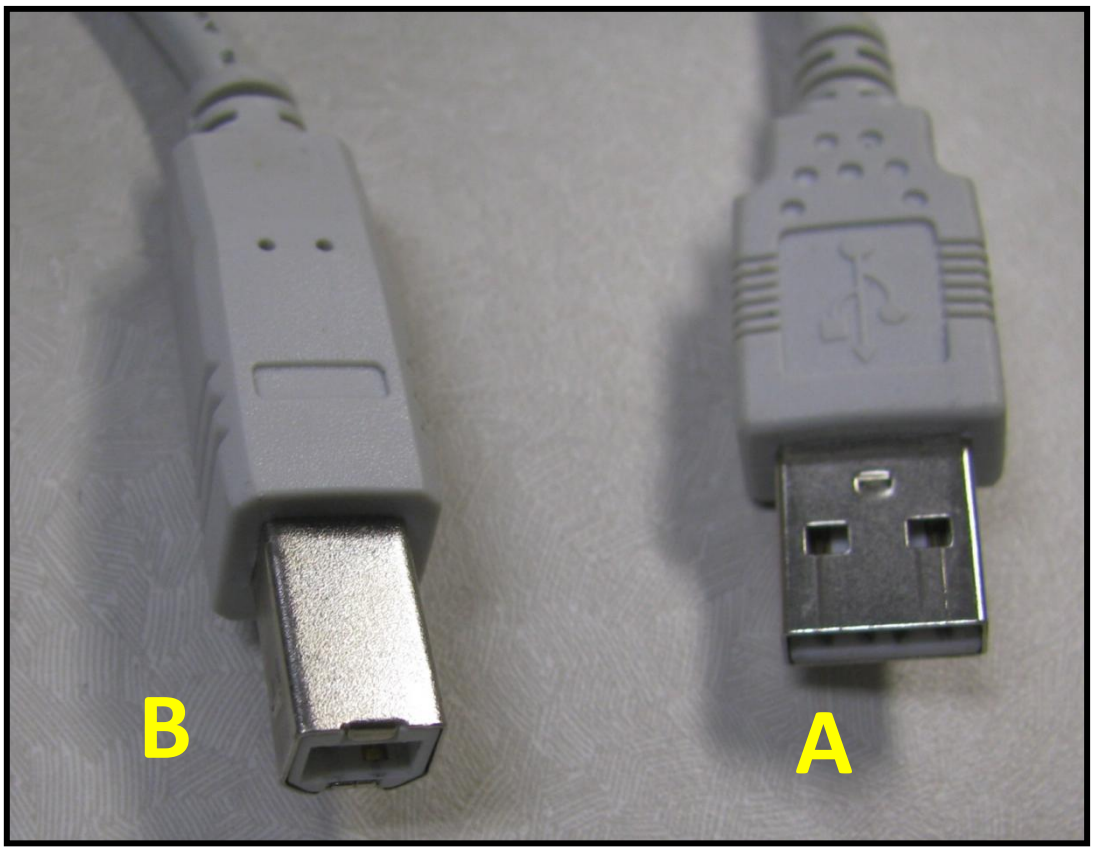


A desktop short-cut is also created to launch the OT Programmer application.

3. Connecting the hardware

Follow the steps below:

Step 1: Connect “B” end of USB cable to the USB port of the OT Programmer tool & the “A” end to the USB port of the PC



Step 2: Connect one end of programmer cable to the PROGRAM port on OT Programmer tool and the other open ended wires to the programming ports on the compatible OPTOTRONIC LED power supply

The programmer cable has 2 wires on open ends- “RED” & “BLACK”. The BLACK wire should be connected to ‘LED-‘ on the OPTOTRONIC LED power supply and the RED wire should be connected to ‘PRG/NTC’ on the OPTOTRONIC LED power supply.

If using an OT Programming nest (51646) - please follow the steps below:

Step 1: Connect “B” end of USB cable to the USB port of the OT Programmer and the “A” end to the USB port of the PC

Step 2: Connect the programming cable from OT Programming nest to the PROGRAM port of the OT Programmer

Step 3: Place the OPTOTRONIC LED power supply in the nest (can be done only in one direction)

If using an OT LINEAR Hand-Held PRG TOOL (51647) - please follow the steps below:

Step 1: Connect “B” end of USB cable to the USB port of the OT Programmer and the “A” end to the USB port of the PC

Step 2: Connect the programming cable from OT LINEAR Hand-Held PRG TOOL to the PROGRAM port of the OT Programmer

Step 3: Insert the Hand-held piece with 2-pins into the ports of the LED driver (can be done only in one direction)

If using an OTLinearAutoPRGTool (51648) - please follow the steps below:

Step 1: Connect “B” end of USB cable to the USB port of the OT Programmer and the “A” end to the USB port of the PC

Step 2: Connect the programming cable from OTLinearAutoPRGTool to the PROGRAM port of the OT Programmer

Step 3: Place the OPTOTRONIC LED power supply in the slot for the driver (should be done only in one direction with driver facing upwards)

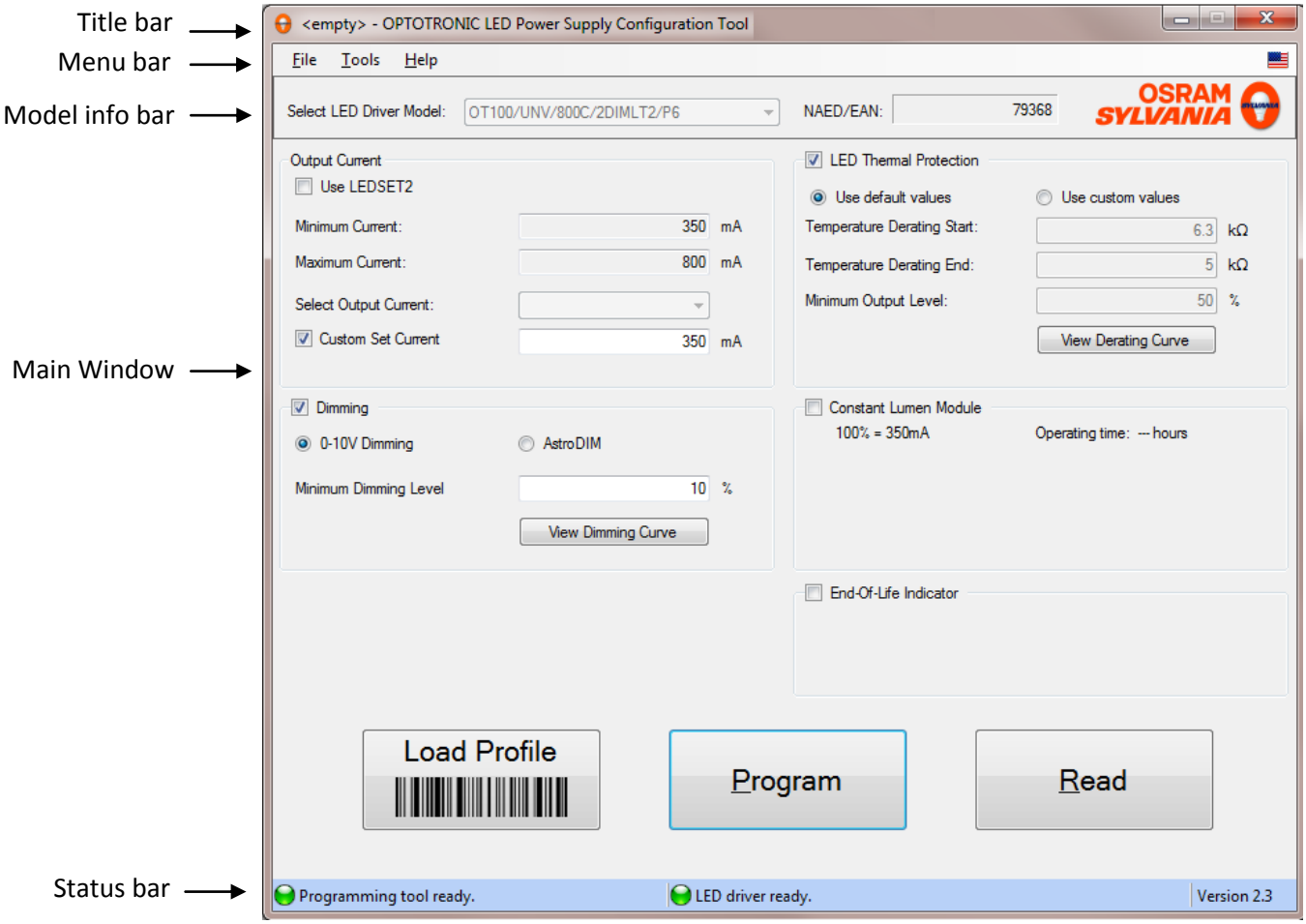
If using an OTOutdoorPGRMTool (51360) - please follow the steps below:

Step 1: Connect “B” end of USB cable to the USB port of the OT Programmer and the “A” end to the USB port of the PC

Step 2: Connect the programming cable from OTOutdoorPGRMTool to the PROGRAM port of the OT Programmer

Step 3: Place the appropriate leads of the OPTOTRONIC LED power supply in the slots provided for ‘BLUE WIRE’ and ‘ORANGE WIRE’

4. OT Programmer interface at a glance



5. Working with OT Programmer interface

5.1. Design Mode

5.1.1. File tab:

The File tab on the OT Programmer Tool will allow the user to create, open, save a profile.

New Profile: This command creates a new profile that allows the user to input a new set of values for all the parameters

Open Profile: This command opens an existing OT Profile file (*.otprofile) from desired location

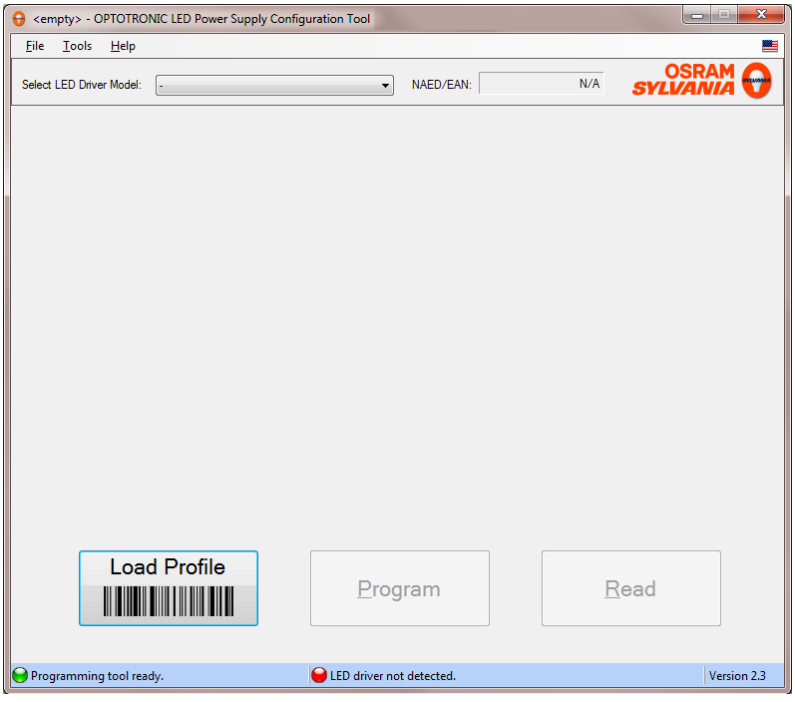
Save Profile: This command will save the desired parameter setup (Profile) as an OT Profile file (*.otprofile)

Save As... : This command is standard windows function Save As... for a given OT Profile

Exit: This commands exits from the application.

5.1.2. Configuration of OPTOTRONIC® Programmable LED Power supply parameters

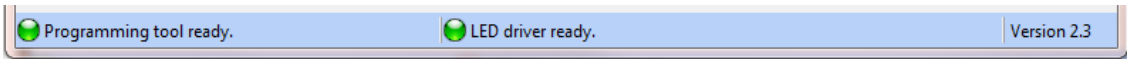
Once the OT Programmer application is launched the user is directed to the interface as shown below.



If the OT Programmer is detected the status button on the Status bar will be GREEN as shown in Figure below and it is indicated that the 'Programming tool ready'

Since the OPTOTRONIC LED power supply is also connected as explained in the "Connecting the Hardware" section the LED power supply status is also green as shown in Figure below

Make sure that both these indicator lights are GREEN to program the LED power supply properly.

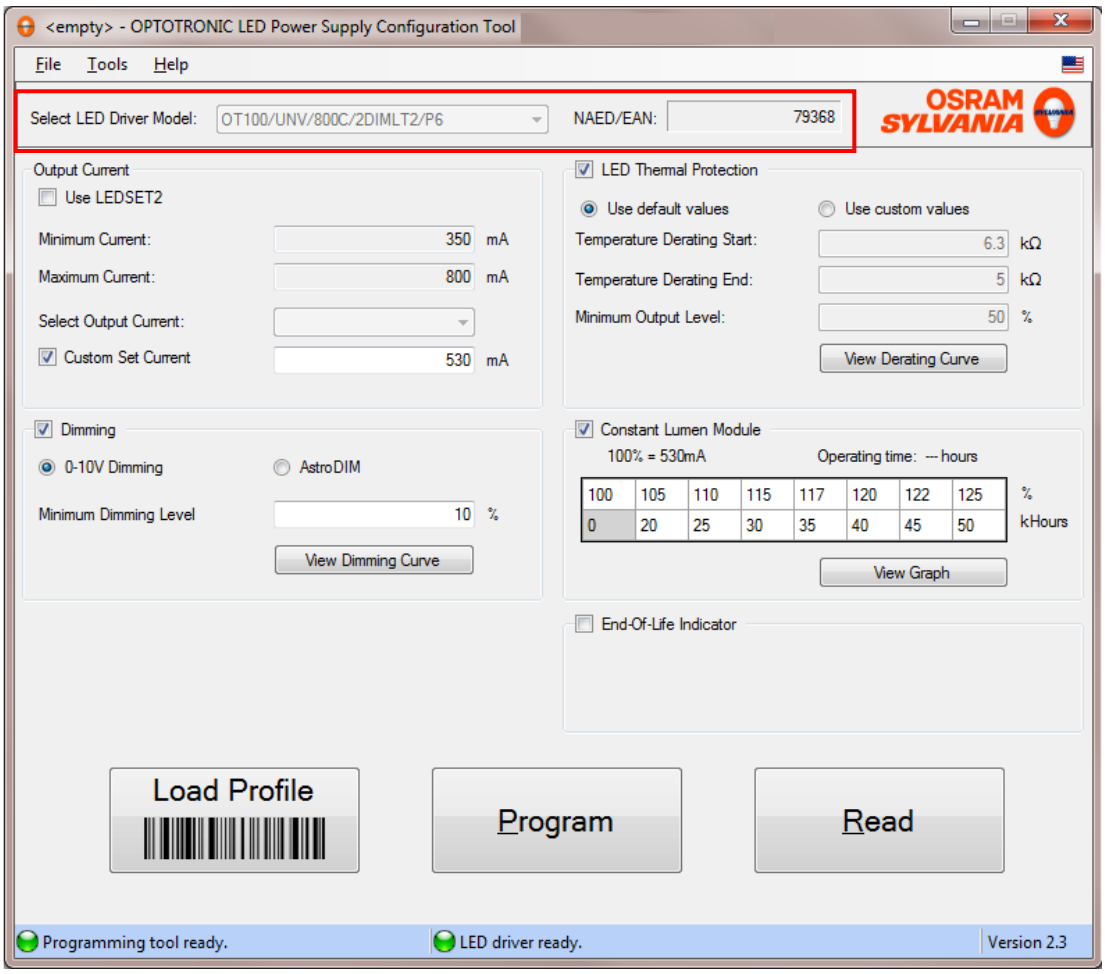


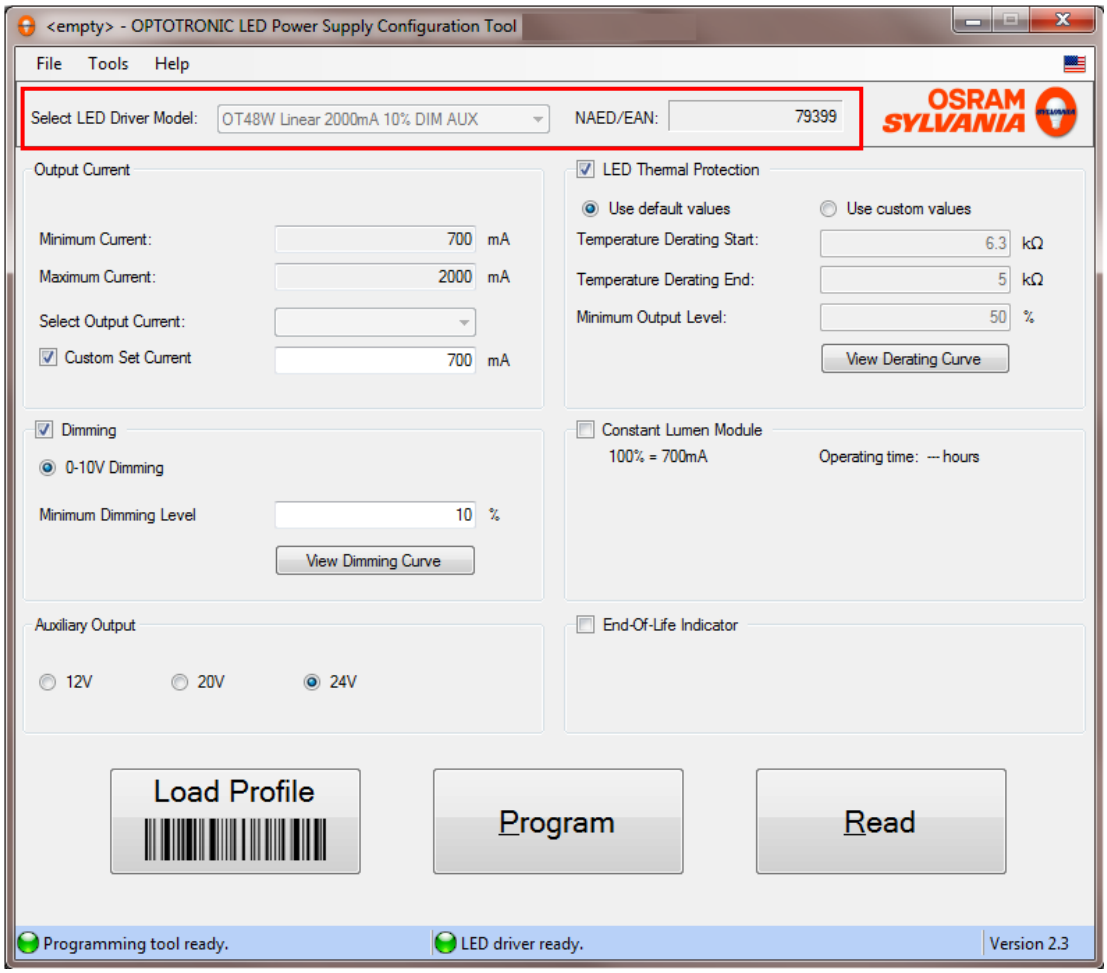
Follow the steps below to successfully program the desired profile on to OPTOTRONIC LED Power supply

Step 1: Make sure that the OPTOTRONIC LED power supply model that needs to be programmed has been automatically detected by the interface. This field grays out once the power supply is connected and detected. The corresponding NAED(s)/EAN are displayed in the NAED/EAN field.

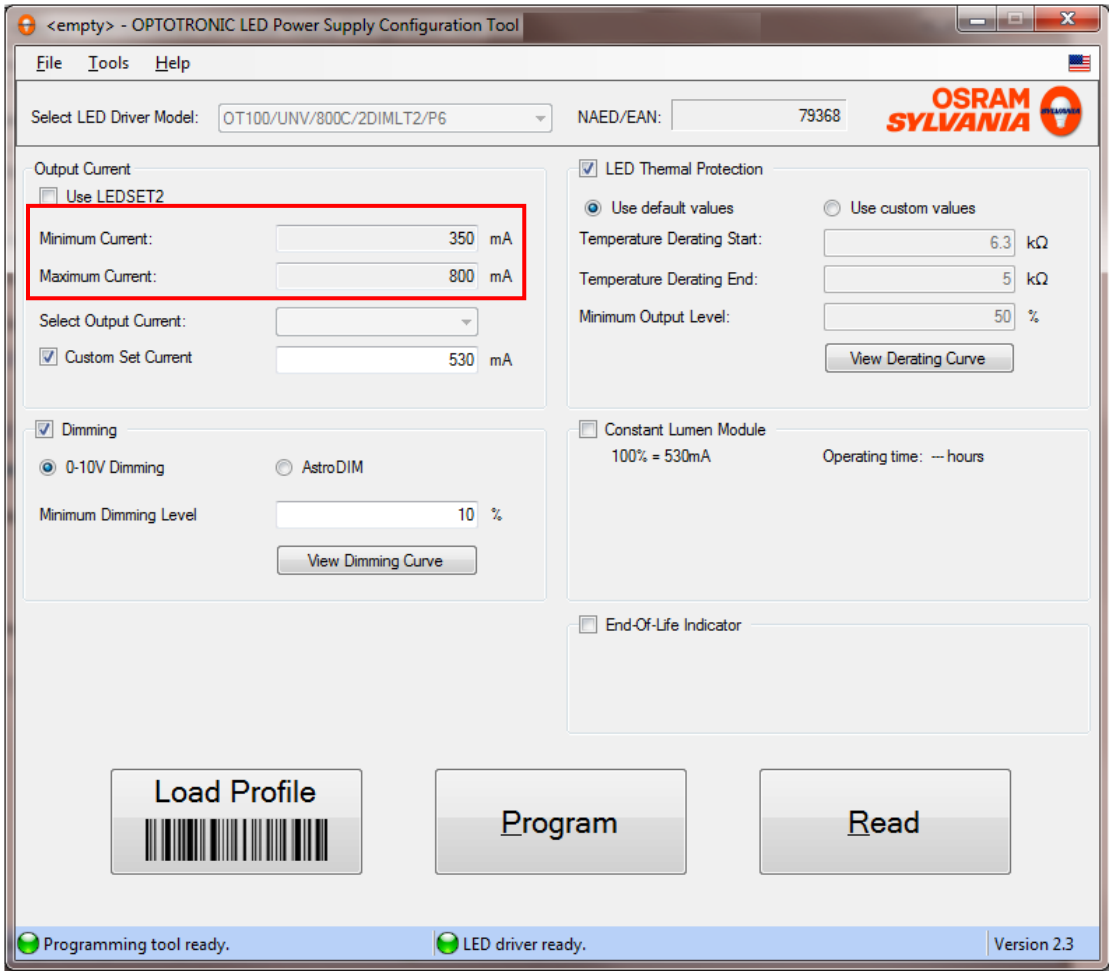
Only the features corresponding to a particular power supply are available for configuring and are available in the Main Window.

Figures below highlights the features available for the selected LED power supplies.

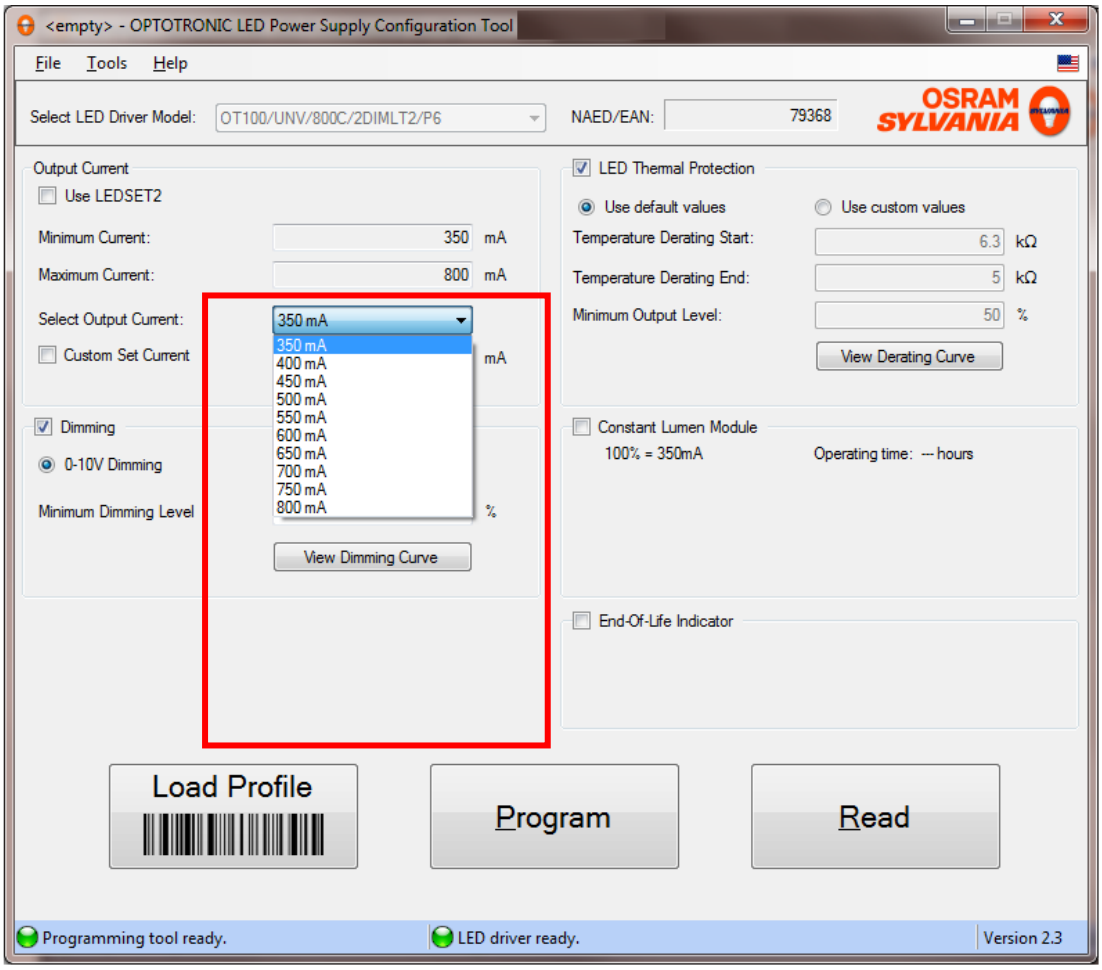


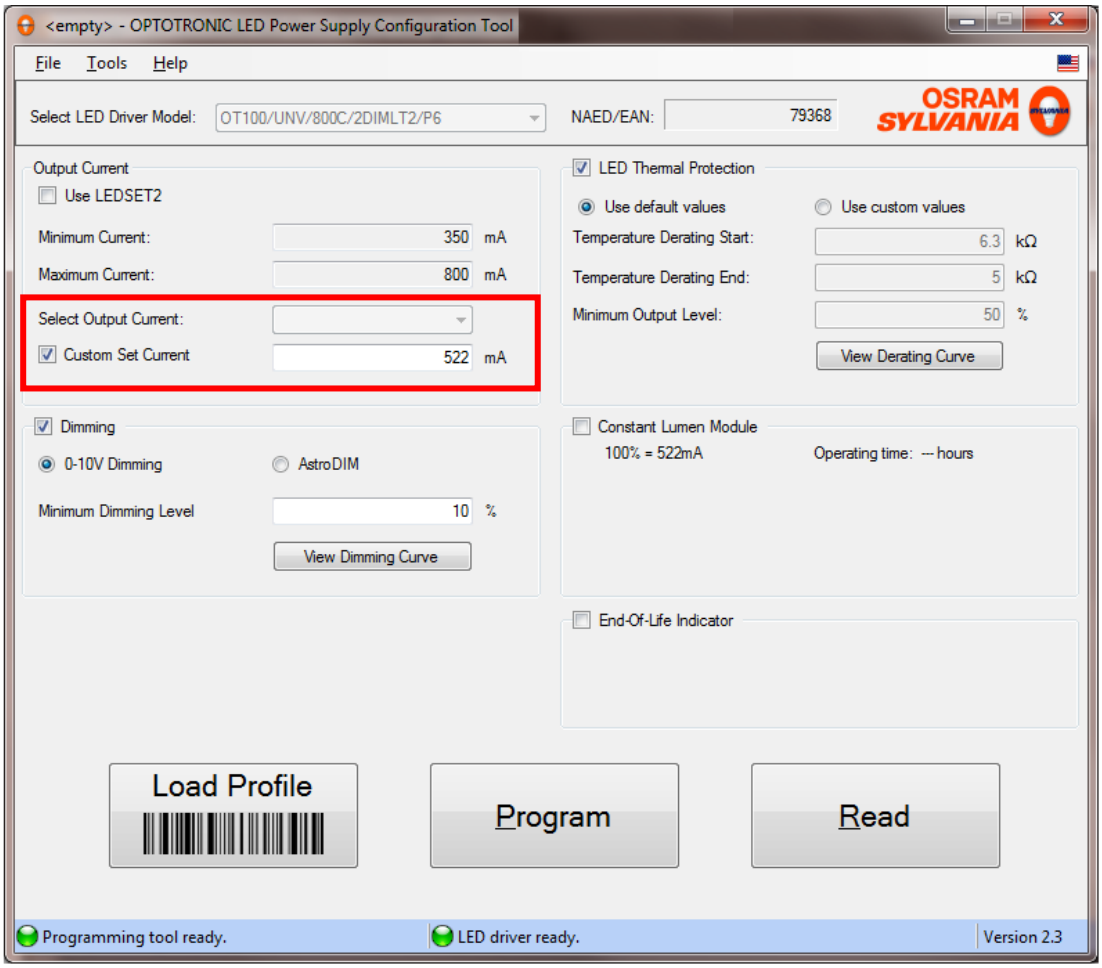

<empty> - OPTOTRONIC LED Power Supply Configuration Tool
File
Tools
Help
Select LED Driver Model:
OT48W Linear 2000mA 10% DIM AUX
NAED/EAN:
79399
OSRAM SYLVANIA
Output Current
Minimum Current:
700
mA
Maximum Current:
2000
mA
Select Output Current:
Custom Set Current
700
mA
LED Thermal Protection
Use default values
Use custom values
Temperature Derating Start:
6.3
kΩ
Temperature Derating End:
5
kΩ
Minimum Output Level:
50
%
View Derating Curve
Dimming
0-10V Dimming
Minimum Dimming Level
10
%
View Dimming Curve
Constant Lumen Module
100% = 700mA
Operating time: --- hours
Auxiliary Output
12V
20V
24V
End-Of-Life Indicator
Load Profile
Program
Read
Programming tool ready.
LED driver ready.
Version 2.3

Step 2: Make sure the required output current to be set is within the minimum & maximum limits.

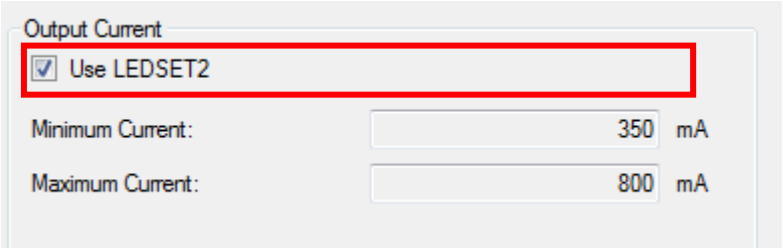


Step 3: Select the desired output current from the drop- down list. If a custom value is desired – check the “Custom Set Current” and enter the desired output current value.

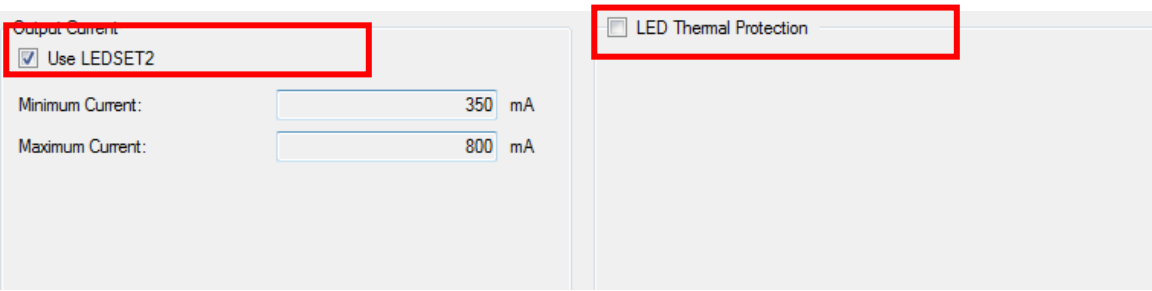




Some OPTOTRONIC LED drivers are compatible with LEDset Gen 2 capable LED modules. Drivers with this capbility, when detected by the interface, will provide an option to enable/ disable this feature.



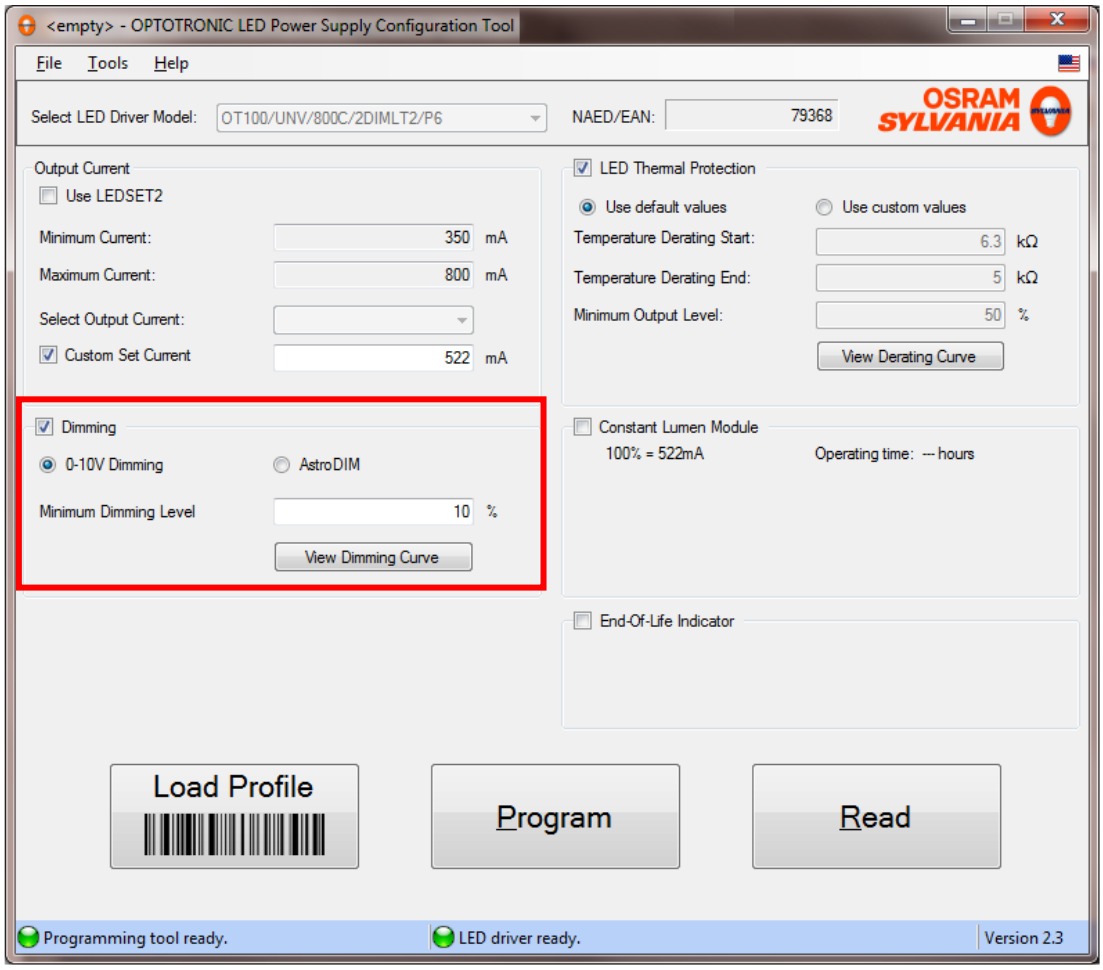
If the LEDset is enabled the output current cannot be set manually but is determined by the LEDset interface of the LED module. Also, the LED Thermal protection feature is disabled when the LEDset feature is enabled.

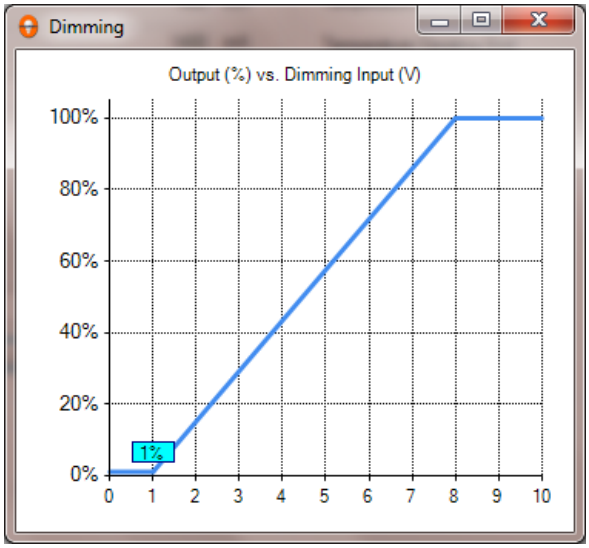


For detailed information on LEDset interface please refer to *Technical Application guide LEDset interface* (LED 409)

Note 3: Models 79405, 79406 & 79466 have a minimum output current value of 150mA. From 150mA to 349mA the output current of the LED driver will be in PWM mode. In this window of operation, the minimum dimming level is 10%. From 350mA to maximum current operation the minimum dimming level is 1%.

Step 4: Dimming feature is by default “Enabled”. If not required uncheck the box for “Enable Dimming”. Set the required “Minimum Dimming level”. Dimming profile can be viewed by clicking ‘View Dimming Curve” button. Double click the graph to copy onto clipboard.

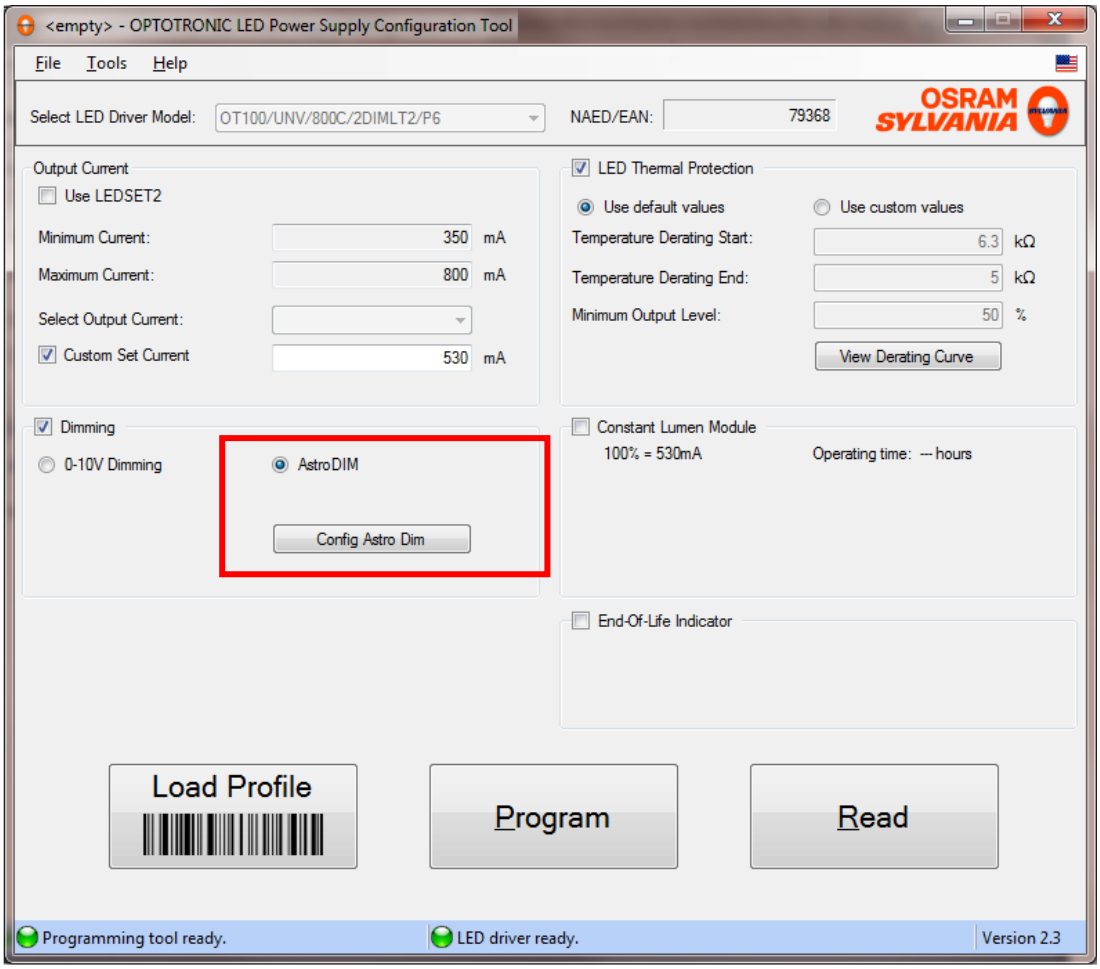




The outdoor rated programmable drivers are capable of working in ‘AstroDIM’ mode. This feature is available for configuration when they are selected for programming.

When the ‘AstroDIM’ mode is selected the 0-10V dimming option is disabled.

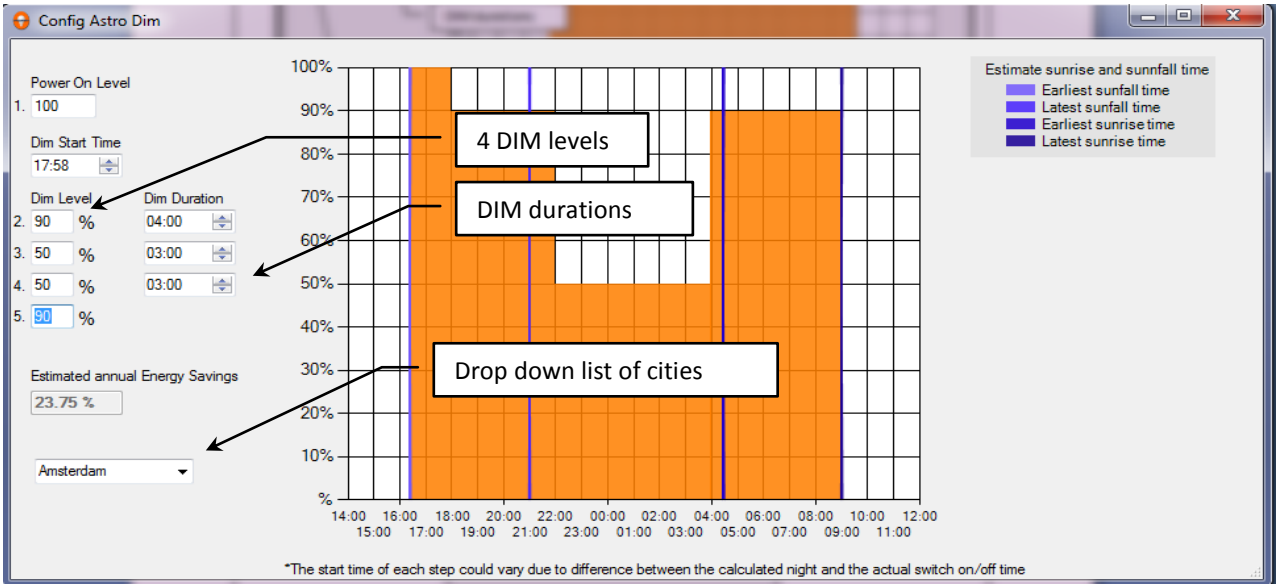
To configure the ‘AstroDIM’ profile click the ‘Config Astro Dim’ button available in the window.



A new window pops up where different parameters can be set for the driver in AstroDIM mode. The ‘Power On Level’ determines the fixture output when it is turned ON. This field accepts inputs between 10 and 100. The ‘Dim Start time’ determines the time from which the fixture starts dimming. The ‘Dim Start Time’ is limited by the location/city chosen.

The fixture can be set in 4 different DIM levels during the total ON time. Input ‘DIM level’ as required and set the ‘Dim Duration’ for each Dim level (HH:MM). The max duration of any Dim level is 8 hours.

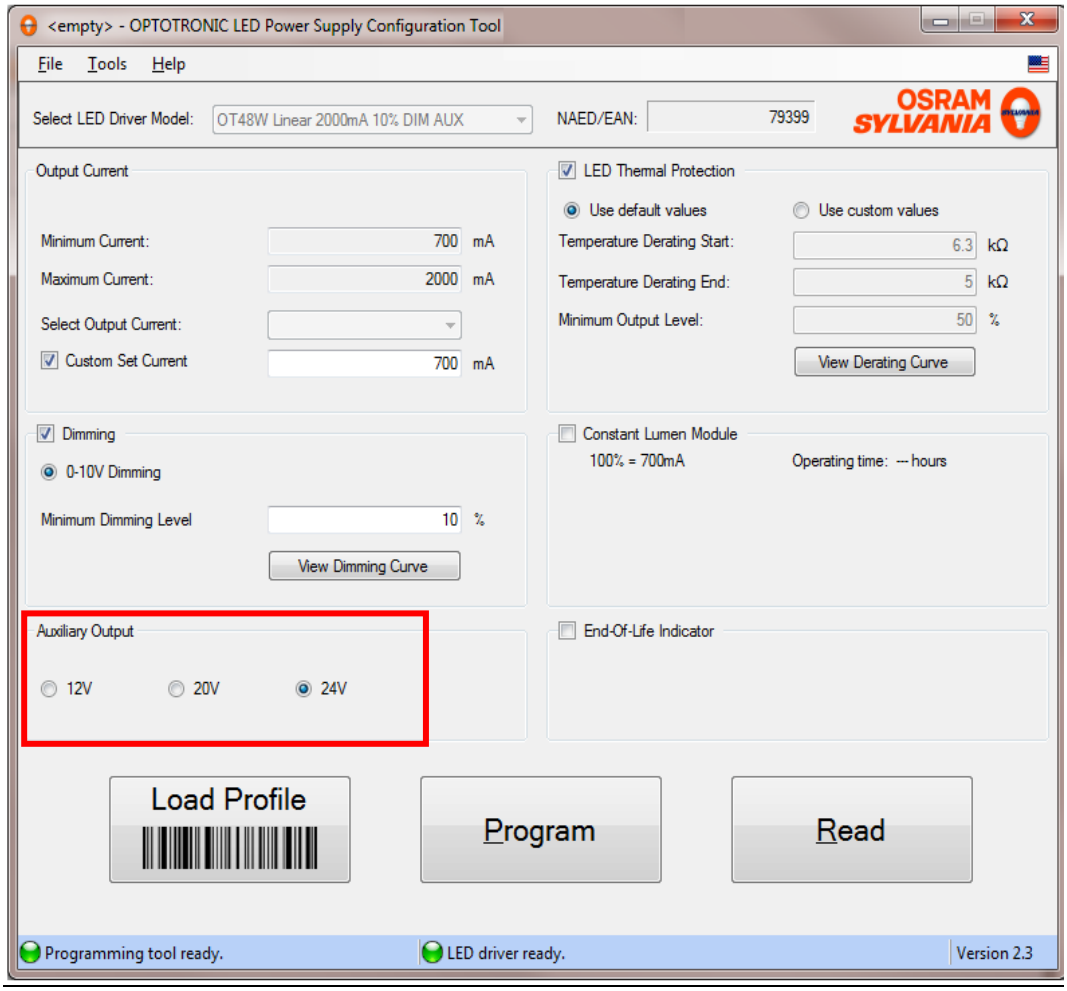
For detailed information on AstroDIM please refer to Technical Application guide 2DIM feature (LED 408)



The 2.4 version AstroDIM is updated with additional features such as

- Fixed on time of 12 hrs removed
- Dropdown list of cities added to upgrade from fixed 12 hr on time to city specific DIM start time
- Location data in AstroDIM is not stored and could cause deviation between the set data and data read back from the ECG (min resolution capability of the timing durations is 2 mins)
- Max and Min for sunset and sunrise added for each city
- Estimated annual energy savings added

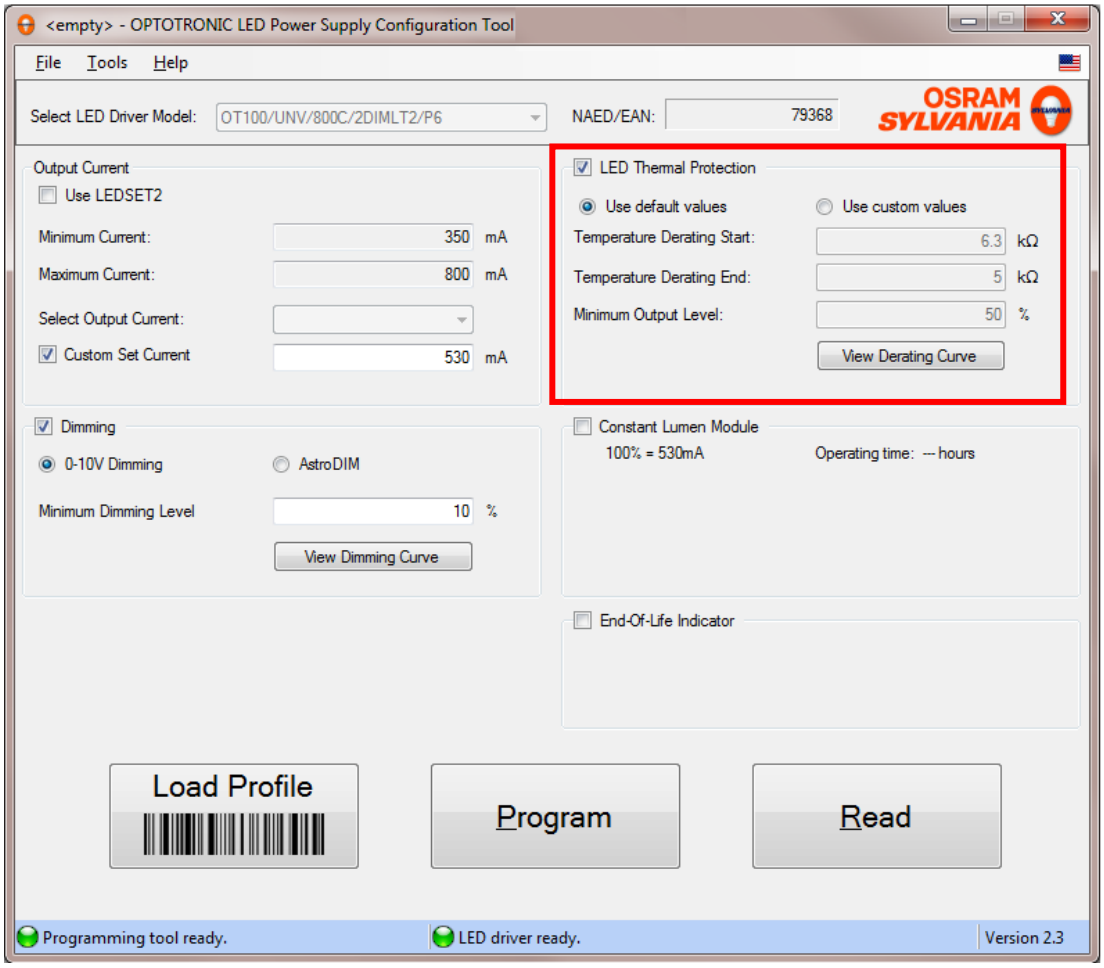
Step 5: If the driver is capable of providing an Auxiliary output, the 'Auxiliary output' window is available for programming in the interface. Drivers capable of this feature have the default selected to be 24V DC. If a different output value is required select from the options available on by clicking on the radio button next to the value.

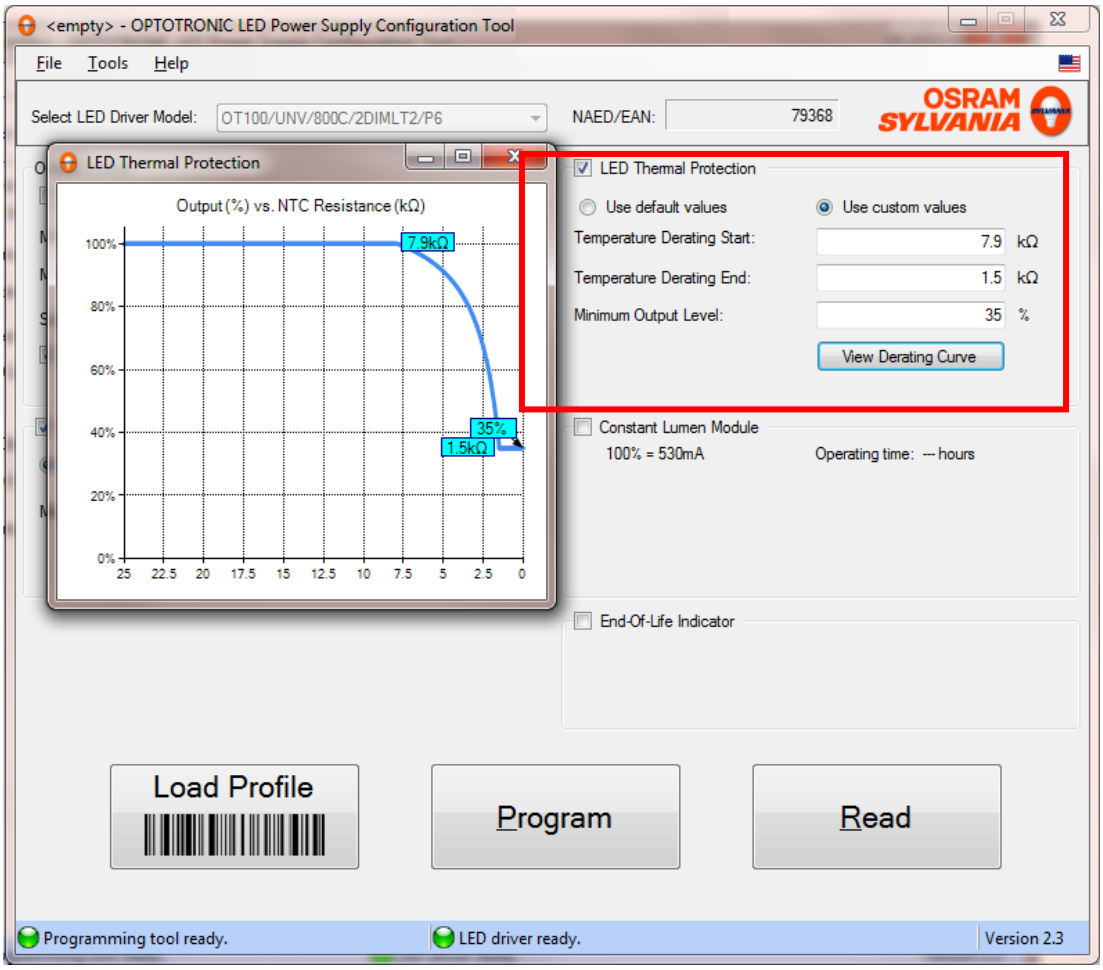


Step 6: LED Thermal protection is enabled by default in the software and on the power supply with Default values. To use custom values for NTC resistances select the radio button for “Use custom values”. Input the values for “Temperature Derating Start” & “temperature Derating End”. The maximum value that can be input for ‘Temperature Derating Start’ is 25kΩ and the ‘Temperature Derating End’ is always less than ‘Temperature Derating Start’ value and greater than or equal to 1kΩ.

Set the minimum output level between 1-100% for 1%DIM power supply and 10-100% for 10% DIM power supply. The variation of output with NTC resistance can be viewed using the ‘View Derating Curve’ button. Double click on the graph will copy the graph in clipboard.

To disable the LED Thermal protection feature uncheck the box next to LED Thermal Protection on the interface.


<empty> - OPTOTRONIC LED Power Supply Configuration Tool
File
Tools
Help
Select LED Driver Model:
OT100/UNV/800C/2DIMLT2/P6
NAED/EAN:
79368
OSRAM SYLVANIA
Output Current
Use LEDSET2
Minimum Current:
350
mA
Maximum Current:
800
mA
Select Output Current:
Custom Set Current
530
mA
LED Thermal Protection
Use default values
Use custom values
Temperature Derating Start:
6.3
kΩ
Temperature Derating End:
5
kΩ
Minimum Output Level:
50
%
View Derating Curve
Dimming
0-10V Dimming
AstroDIM
Minimum Dimming Level
10
%
View Dimming Curve
Constant Lumen Module
100% = 530mA
Operating time: --- hours
End-Of-Life Indicator
Load Profile
Program
Read
Programming tool ready.
LED driver ready.
Version 2.3

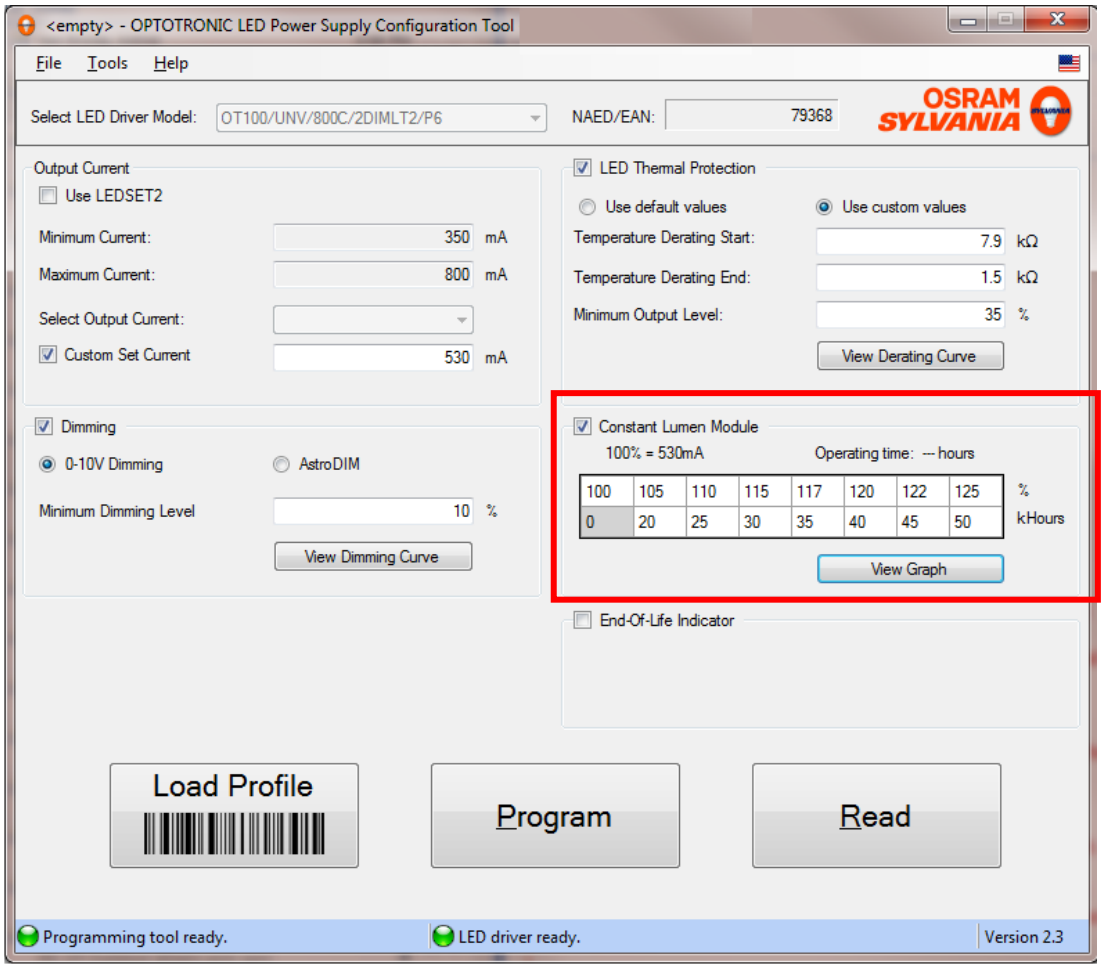

<empty> - OPTOTRONIC LED Power Supply Configuration Tool
File
Tools
Help
Select LED Driver Model:
OT100/UNV/800C/2DIMLT2/P6
NAED/EAN:
79368
OSRAM SYLVANIA
LED Thermal Protection
Output (%) vs. NTC Resistance (kΩ)
100%
80%
60%
40%
20%
0%
25
22.5
20
17.5
15
12.5
10
7.5
5
2.5
0
7.9kΩ
35%
1.5kΩ
LED Thermal Protection
Use default values
Use custom values
Temperature Derating Start:
7.9
kΩ
Temperature Derating End:
1.5
kΩ
Minimum Output Level:
35
%
View Derating Curve
Constant Lumen Module
100% = 530mA
Operating time: --- hours
End-Of-Life Indicator
Load Profile
Program
Read
Programming tool ready.
LED driver ready.
Version 2.3

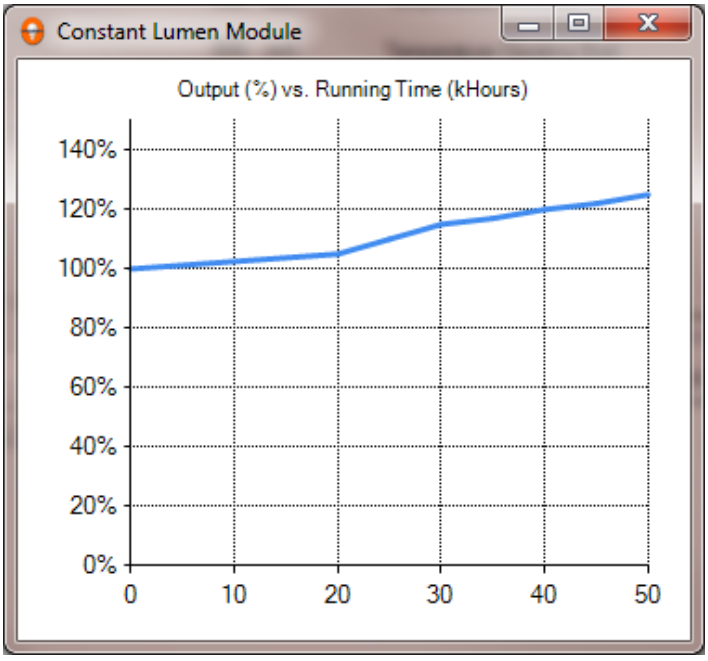
Step7: Constant Lumen Module: The feature adjusts the output current from default over time. User defines a look-up table for as time (k-hours) and %-change of current. The function is passive – pre-defined.

- Disabled by default in the GUI and the power supply. To enable the feature check the box next to 'Constant Lumen Module'.
- Input the required values in the respective fields for percentage of current and the duration of running.
- 'View graph' button can be used to view the variation of Output Vs Running time (kHours). Double click on the graph will copy the graph in clipboard
- 'Operating time' in hours can be read from the power supply as explained in the Step 10 below

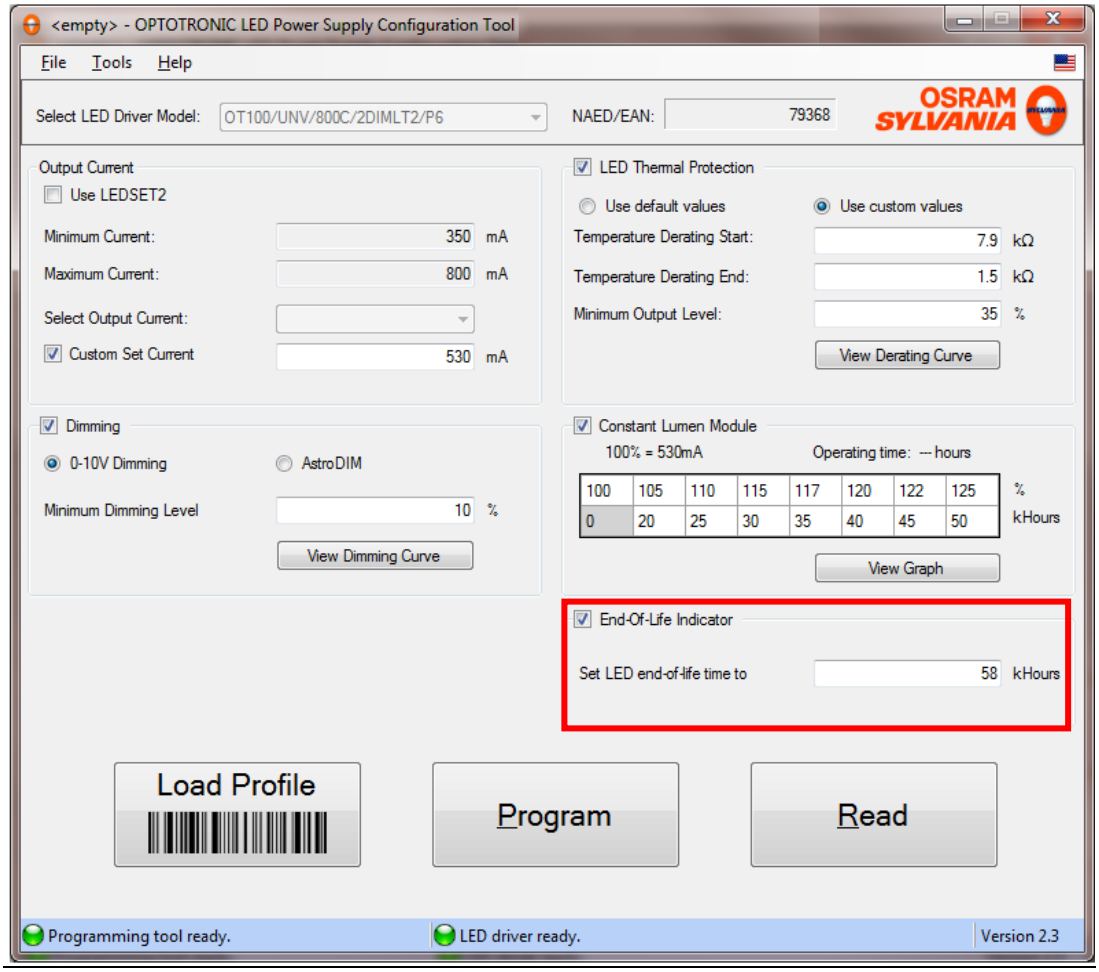
Note 4: A max of 8 set points can be input on the GUI for the % of current output and time in kHours. The maximum percentage of output current that can be input is 150% and minimum is 50%. The maximum kHrs that can be input is 254 and minimum is 1. By default the kHours for first set point is '0' (zero). The 100% current output value is displayed in the window for which the power supply is programmed. The percentage of output current cannot exceed the maximum current of the LED driver. Inputs resulting in an output level outside the output current range allowed for the power supply a message is popped out 'Output current cannot exceed device maximum level'.

If user changes the set current after constant Lumen profile is defined, any %-output values that result in the driver exceeding the max output current are automatically reduced to an acceptable number and a message is displayed: "Percentages are adjusted to stay within valid output range"

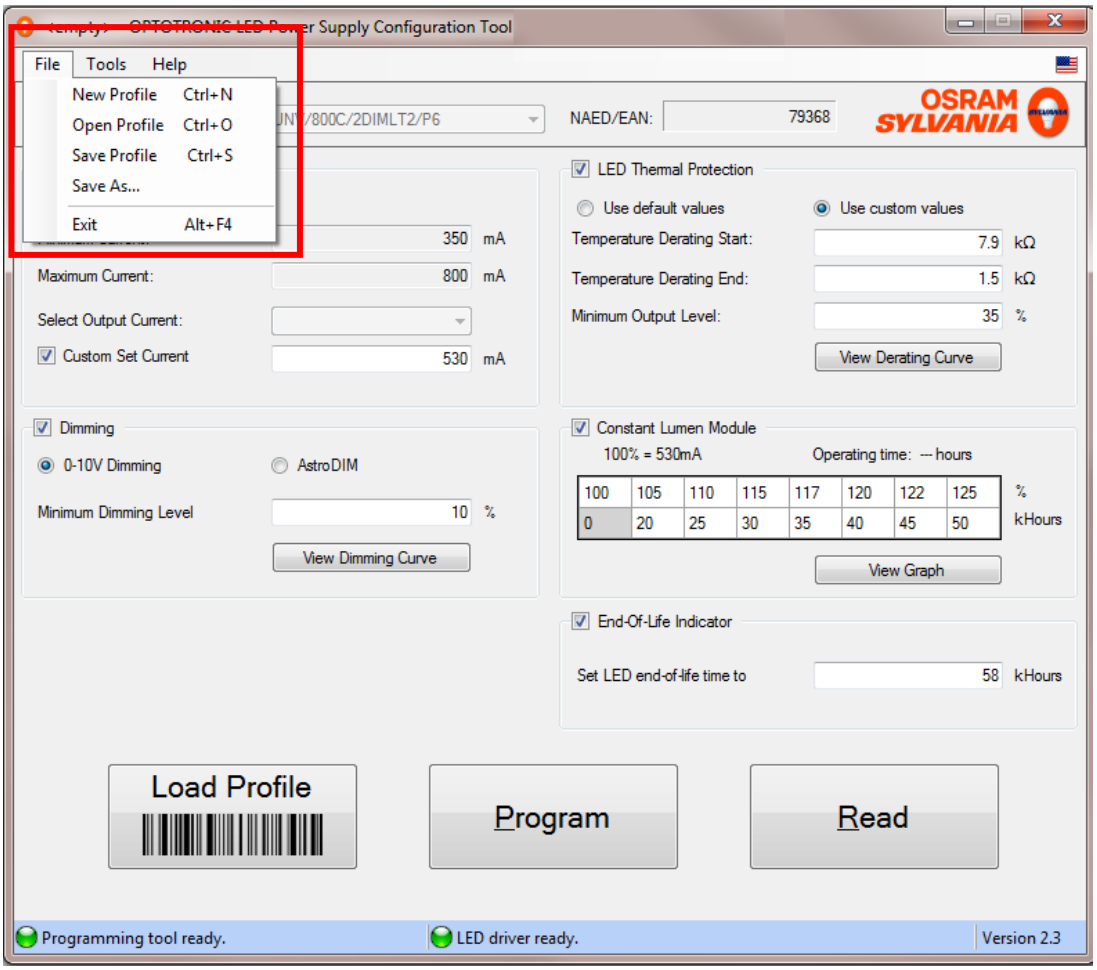

<empty> - OPTOTRONIC LED Power Supply Configuration Tool
File Tools Help
Select LED Driver Model: OT100/UNV/800C/2DIMLT2/P6
NAED/EAN: 79368
OSRAM SYLVANIA
Output Current
Use LEDSET2
Minimum Current: 350 mA
Maximum Current: 800 mA
Select Output Current:
Custom Set Current 530 mA
LED Thermal Protection
Use default values
Use custom values
Temperature Derating Start: 7.9 kΩ
Temperature Derating End: 1.5 kΩ
Minimum Output Level: 35 %
View Derating Curve
Dimming
0-10V Dimming
AstroDIM
Minimum Dimming Level 10 %
View Dimming Curve
Constant Lumen Module
100% = 530mA
Operating time: --- hours
100 105 110 115 117 120 122 125 %
0 20 25 30 35 40 45 50 kHours
View Graph
End-Of-Life Indicator
Load Profile
Program
Read
Programming tool ready.
LED driver ready.
Version 2.3


Constant Lumen Module
Output (%) vs. Running Time (kHours)
140%
120%
100%
80%
60%
40%
20%
0%
0
10
20
30
40
50

Step8: End-of Life indicator is by default disabled in the LED power supply. To enable this feature, check the box next to 'End-of-Life' indicator and input the 'Set LED end-of-life time to' to desired value. The values should be between 1 & 254.



Step9: Check all the parameters & make sure the values are as required. Once confirmed, save the profile to the desired location. A file with "filename".otprofile will be created at the indicated location. To create multiple profiles for multiple power supplies repeat steps 1 to 9.



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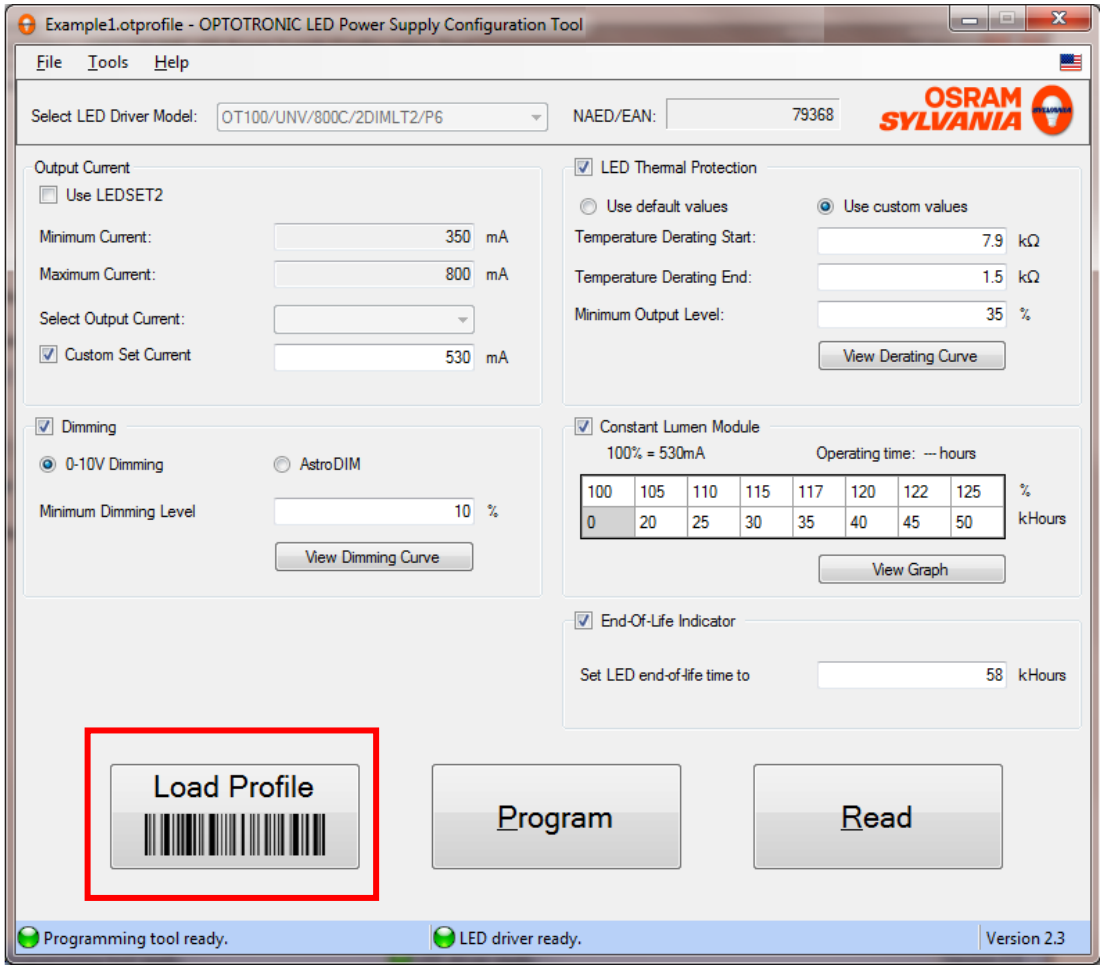
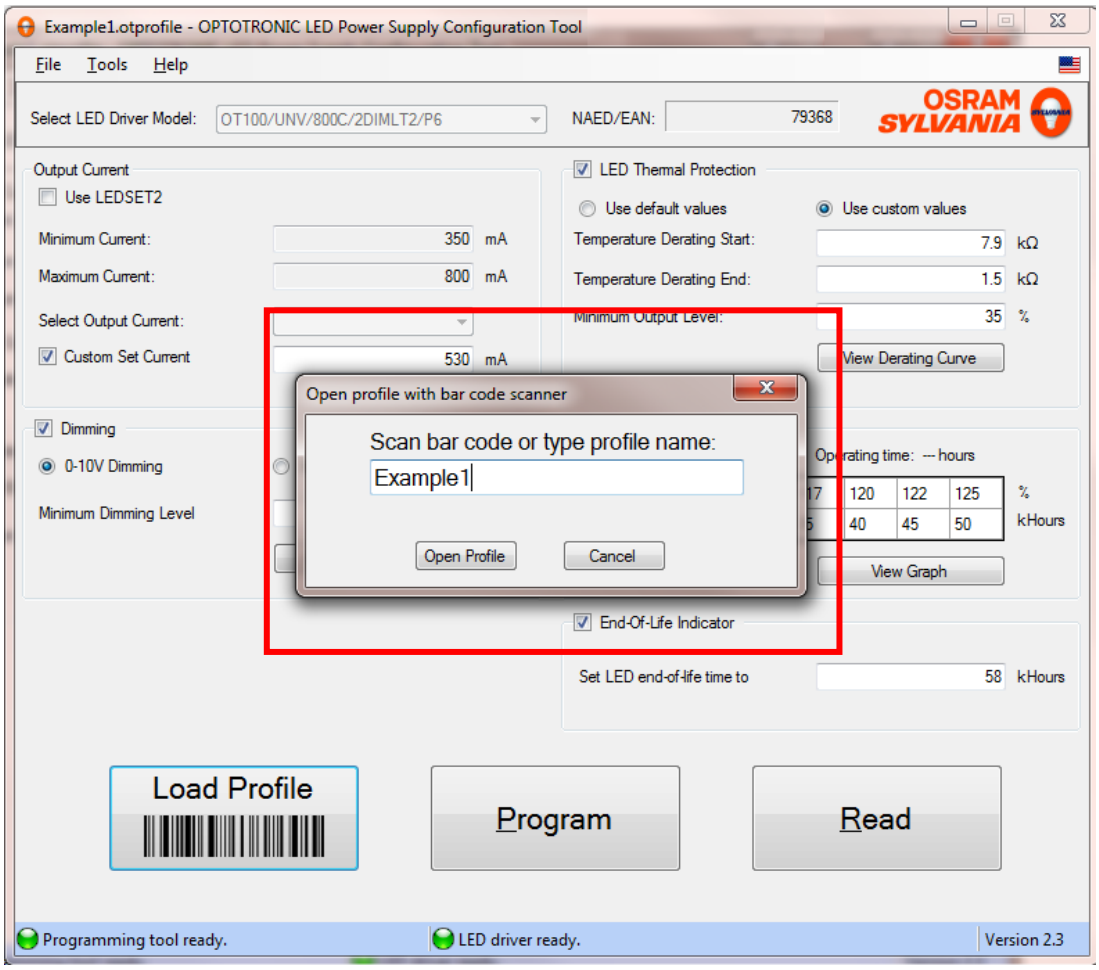
5.1.3. Programming the OPTOTRONIC LED Power Supply

Step 1: Click the "Load Profile" icon in the main window. A new window will prompt to 'Scan barcode or type profile name'. Make sure the OTprofile that needs to be used is in the same directory as specified in the settings tab.

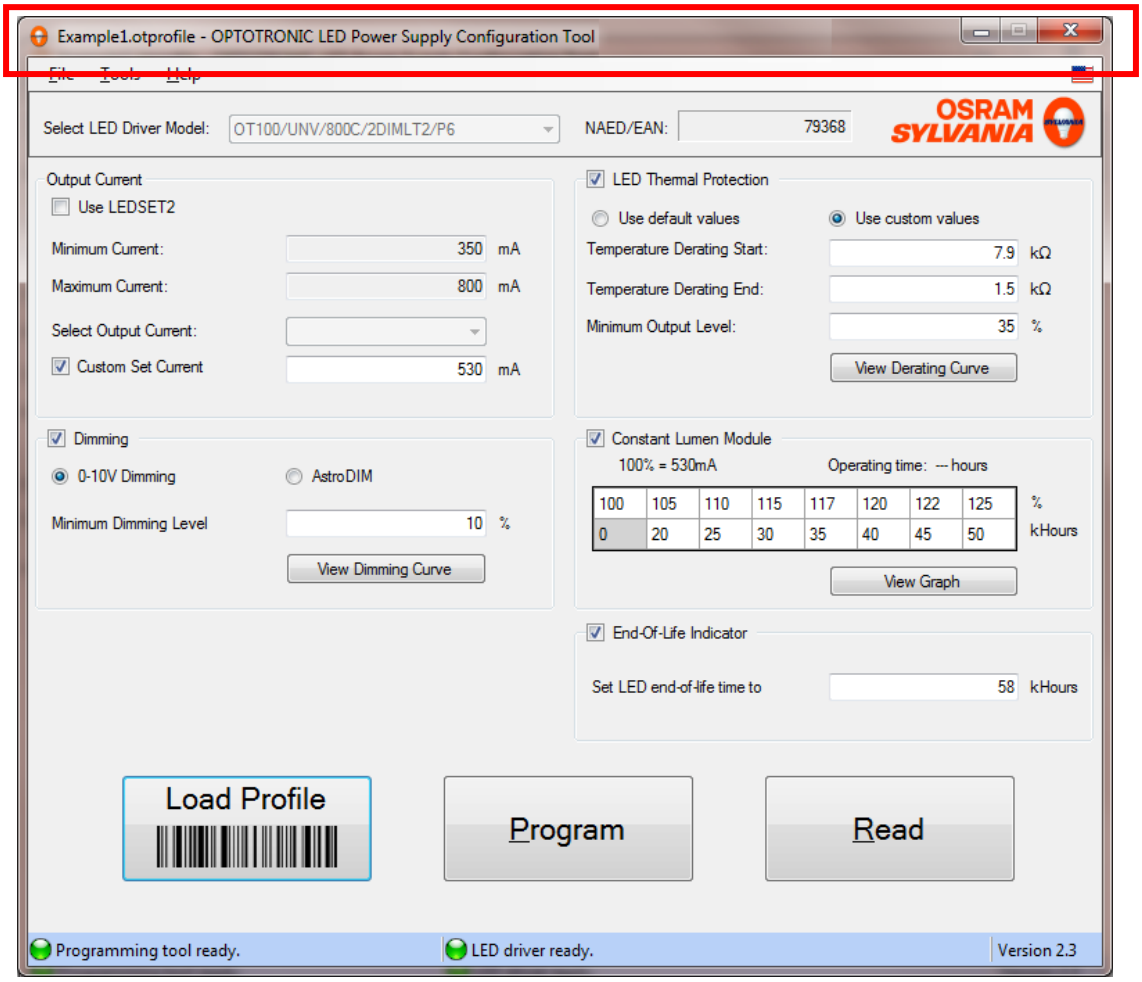
Note 5: If using a Barcode scanner, the Barcode should contain the profile name that it is created earlier as directed in Section 5.1.2. As soon as the profile name is found the window is closed automatically and the OTprofile is opened.

If entering the profile name manually it is important to match the name exactly including spaces (if any). After typing in the profile name click 'open profile' in the window.

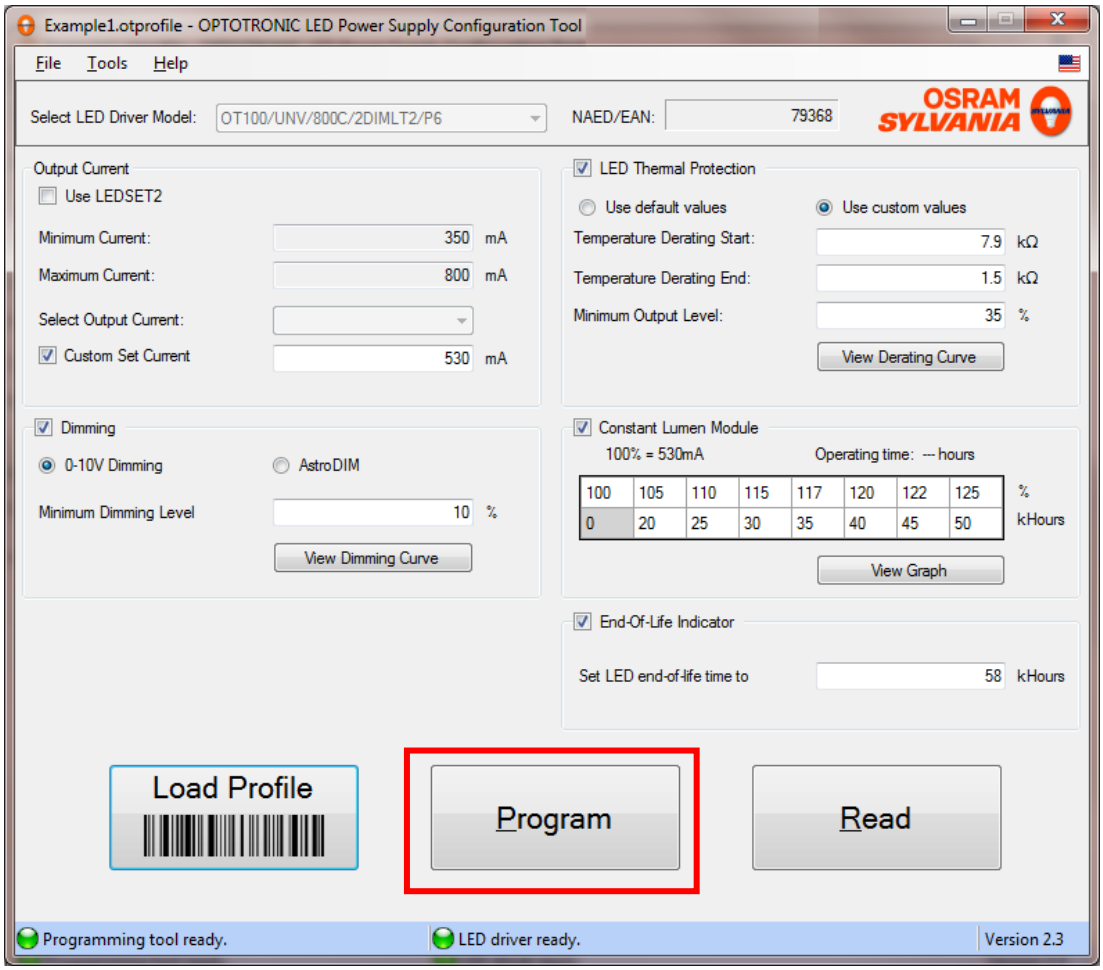


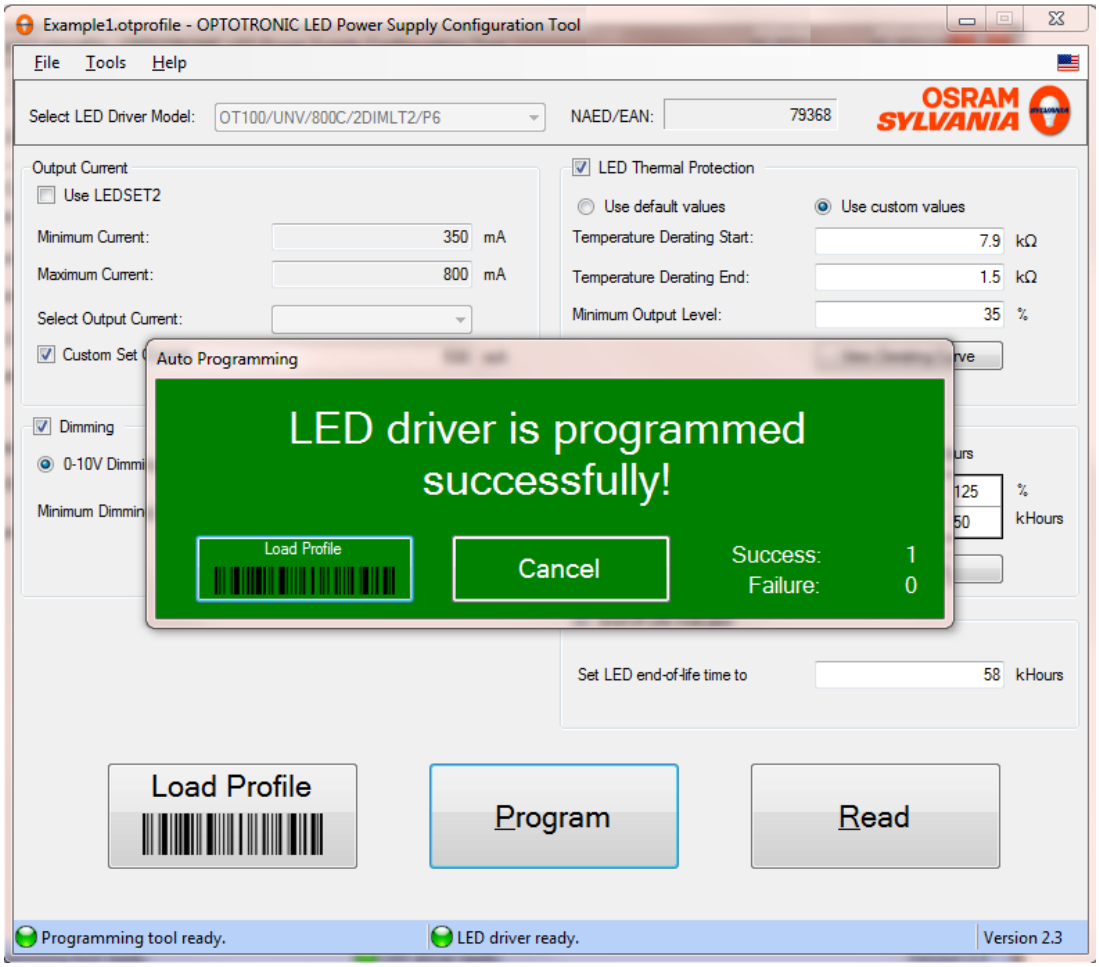

Example1.otprofile - OPTOTRONIC LED Power Supply Configuration Tool
File
Tools
Help
Select LED Driver Model:
OT100/UNV/800C/2DIMLT2/P6
NAED/EAN:
79368
OSRAM SYLVANIA
Output Current
Use LEDSET2
Minimum Current:
350
mA
Maximum Current:
800
mA
Select Output Current:
Custom Set Current
530
mA
LED Thermal Protection
Use default values
Use custom values
Temperature Derating Start:
7.9
kΩ
Temperature Derating End:
1.5
kΩ
Minimum Output Level:
35
%
View Derating Curve
Open profile with bar code scanner
Scan bar code or type profile name:
Example1
Open Profile
Cancel
Dimming
0-10V Dimming
Minimum Dimming Level
Operating time: --- hours
17
120
122
125
%
5
40
45
50
kHours
View Graph
End-Of-Life Indicator
Set LED end-of-life time to
58
kHours
Load Profile
Program
Read
Programming tool ready.
LED driver ready.
Version 2.3

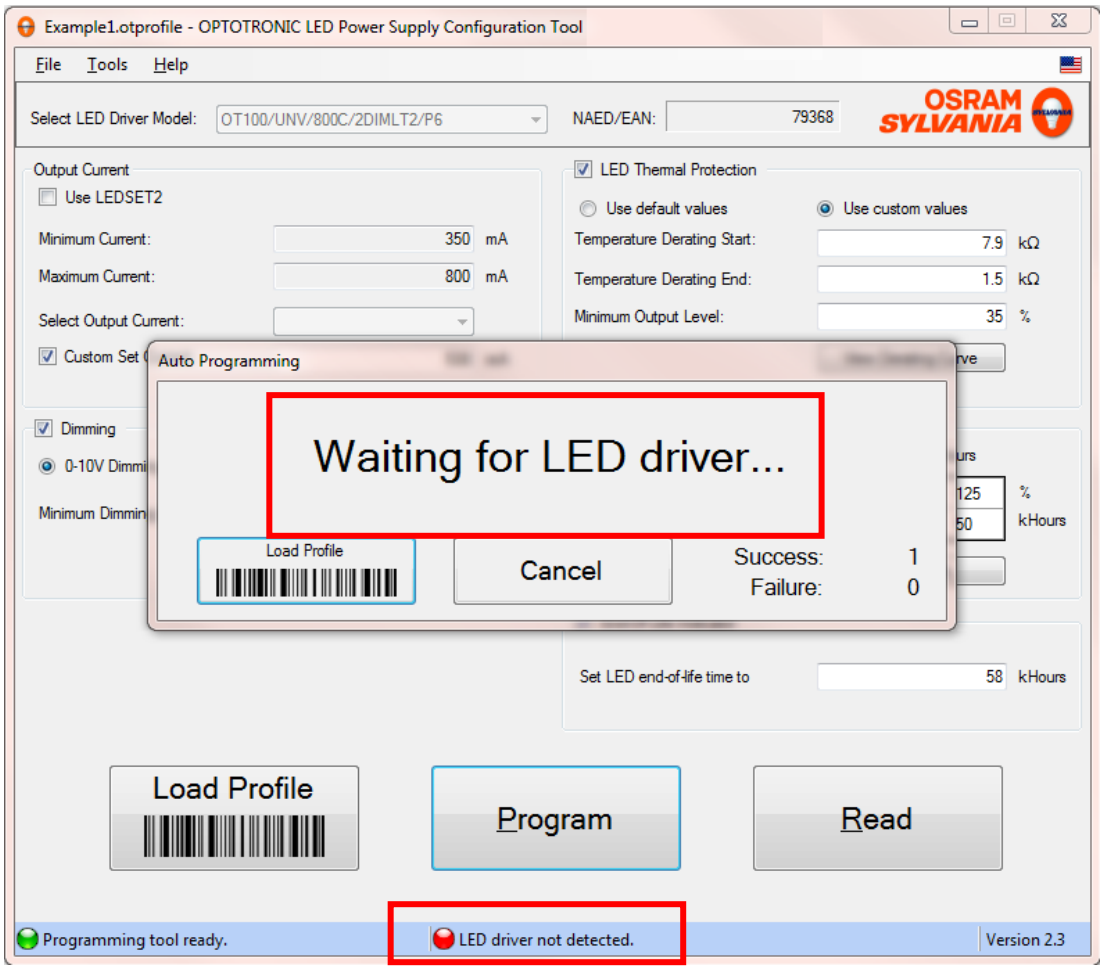
Step 2: Make sure that the Title Bar is updated with the intended profile name to be programmed.



Step 3: Click 'Program' button to start programming the driver. A new window 'Auto Programming' prompts with the status of programming. If the LED driver is already connected a windows message prompts 'LED driver is programmed successfully'. If the LED driver is not connected a windows message prompts 'Waiting for LED driver'

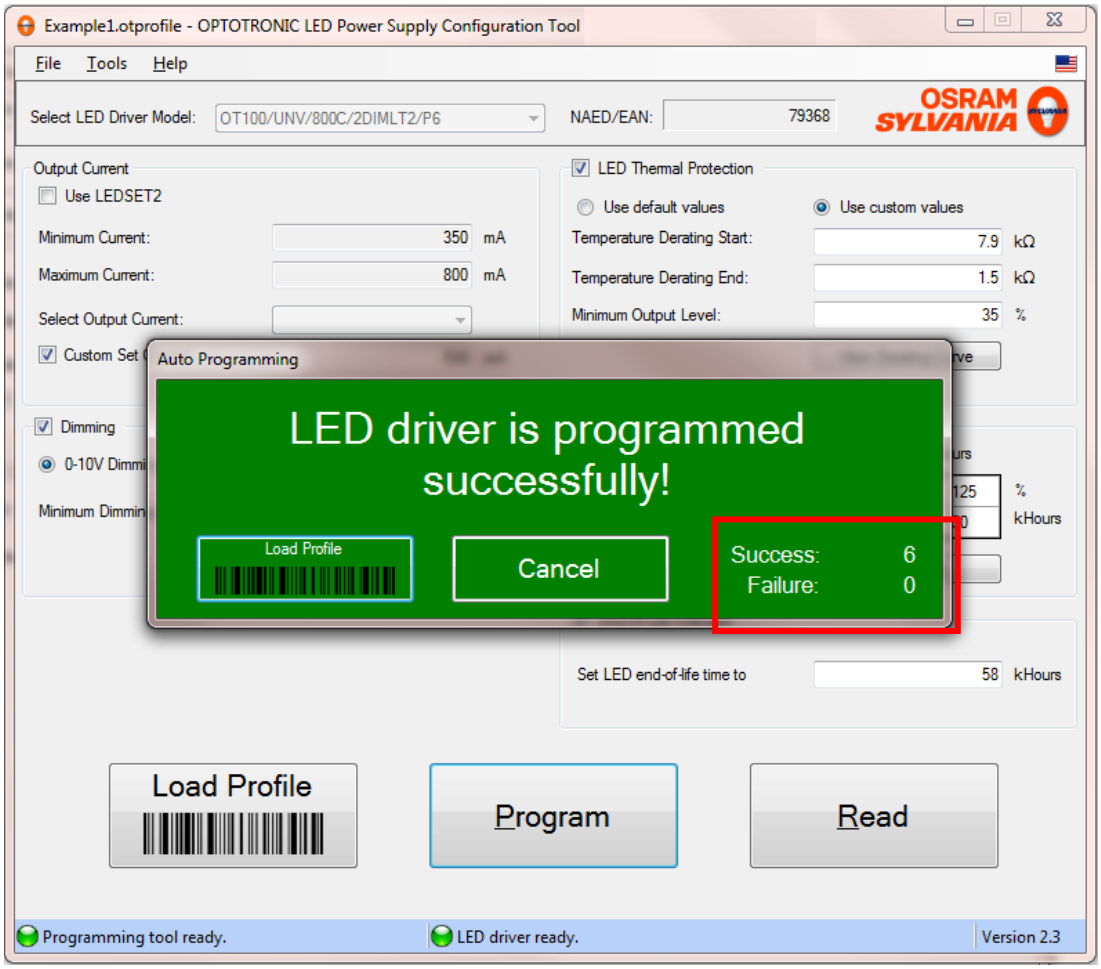



Example1.otprofile - OPTOTRONIC LED Power Supply Configuration Tool
File
Tools
Help
Select LED Driver Model:
OT100/UNV/800C/2DIMLT2/P6
NAED/EAN:
79368
OSRAM SYLVANIA
Output Current
Use LEDSET2
Minimum Current:
350
mA
Maximum Current:
800
mA
Select Output Current:
LED Thermal Protection
Use default values
Use custom values
Temperature Derating Start:
7.9
kΩ
Temperature Derating End:
1.5
kΩ
Minimum Output Level:
35
%
Auto Programming
LED driver is programmed successfully!
Load Profile
Cancel
Success:
1
Failure:
0
Dimming
0-10V Dimmi
Minimum Dimmin
125
%
50
kHours
Set LED end-of-life time to
58
kHours
Load Profile
Program
Read
Programming tool ready.
LED driver ready.
Version 2.3

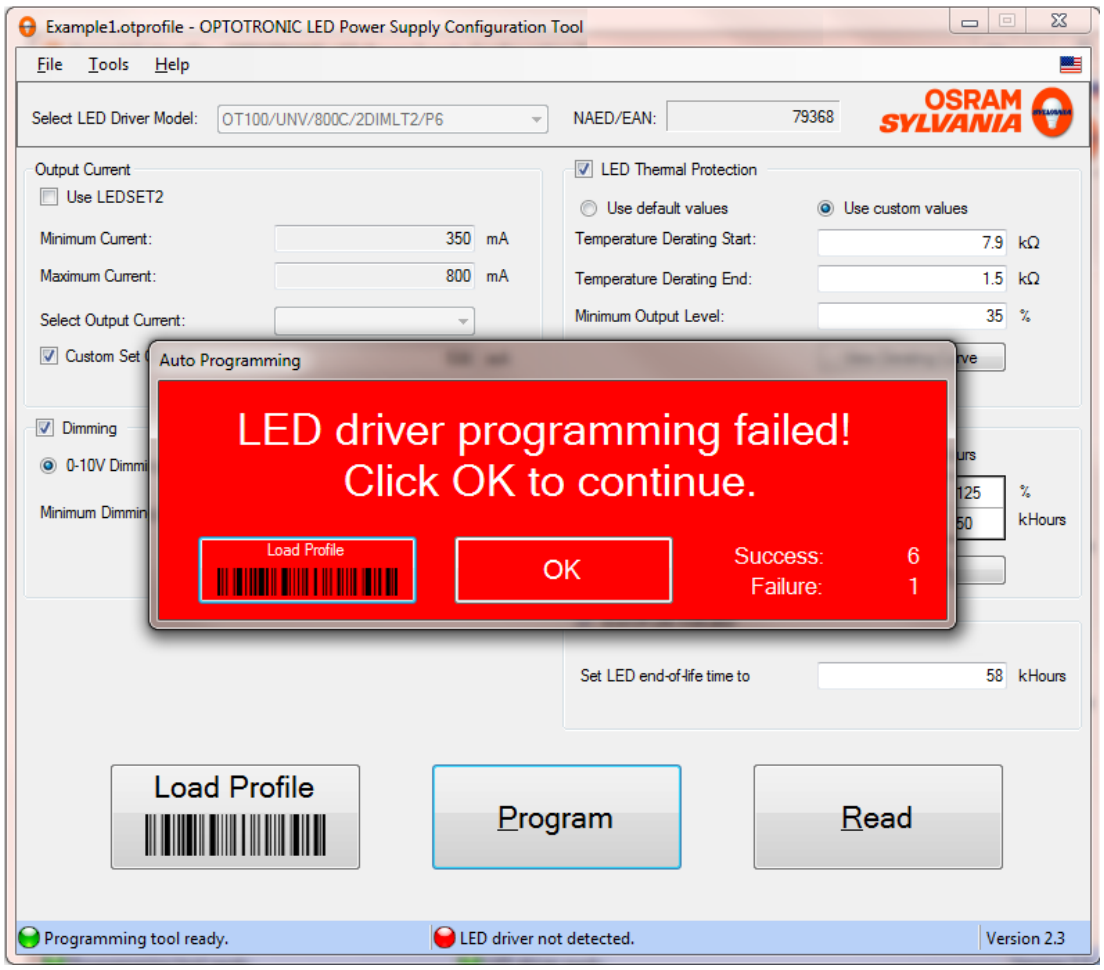

Example1.otprofile - OPTOTRONIC LED Power Supply Configuration Tool
File
Tools
Help
Select LED Driver Model:
OT100/UNV/800C/2DIMLT2/P6
NAED/EAN:
79368
OSRAM SYLVANIA
Output Current
Use LEDSET2
Minimum Current:
350
mA
Maximum Current:
800
mA
Select Output Current:
LED Thermal Protection
Use default values
Use custom values
Temperature Derating Start:
7.9
kΩ
Temperature Derating End:
1.5
kΩ
Minimum Output Level:
35
%
Auto Programming
Waiting for LED driver...
Load Profile
Cancel
Success:
1
Failure:
0
Dimming
0-10V Dimmi
Minimum Dimmin
125
%
50
kHours
Set LED end-of-life time to
58
kHours
Load Profile
Program
Read
Programming tool ready.
LED driver not detected.
Version 2.3

Step 4: If multiple LED power supplies are to be programmed connect the next LED power supply that needs to be programmed. The status signal for LED driver turns green once connected. A windows message pops out with “LED driver is programmed successfully”

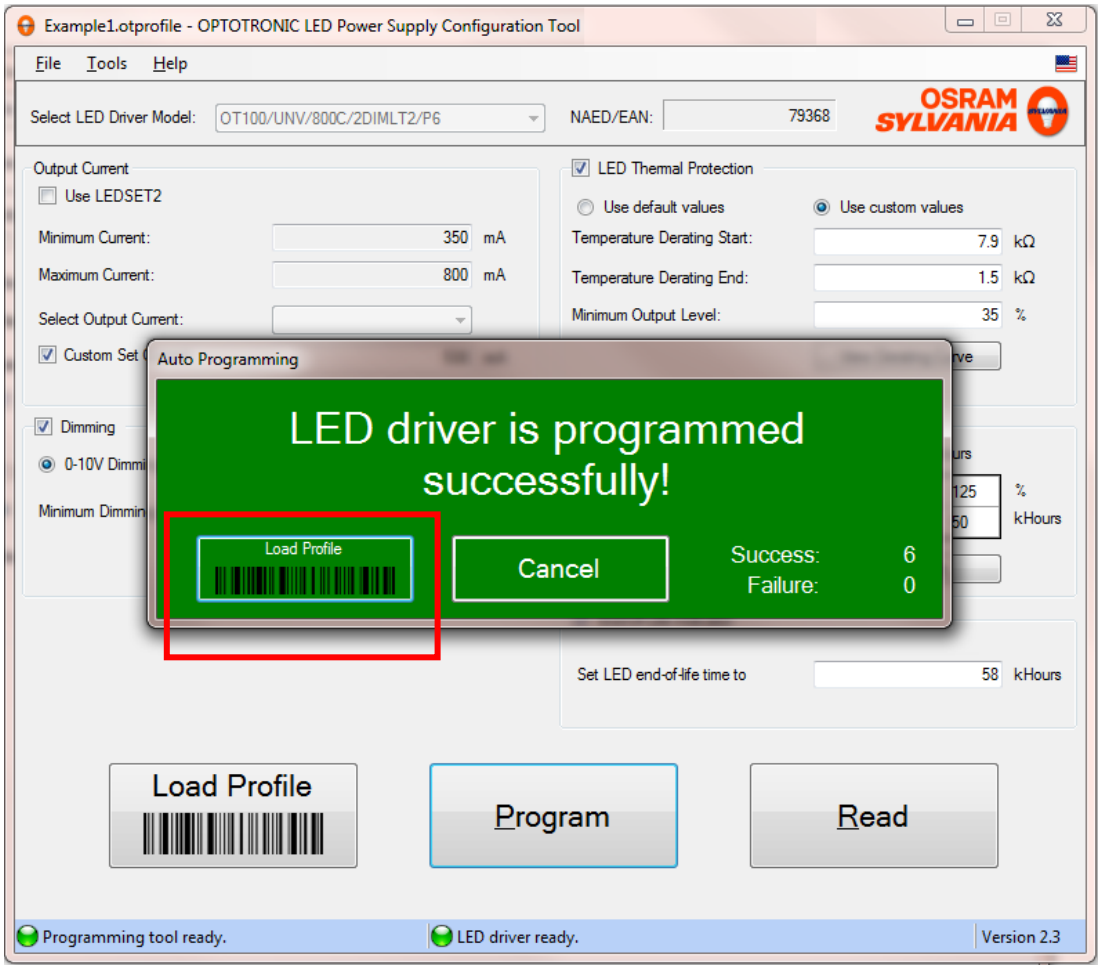
The “Success” count is automatically incremented when the LED power supply is programmed successfully.

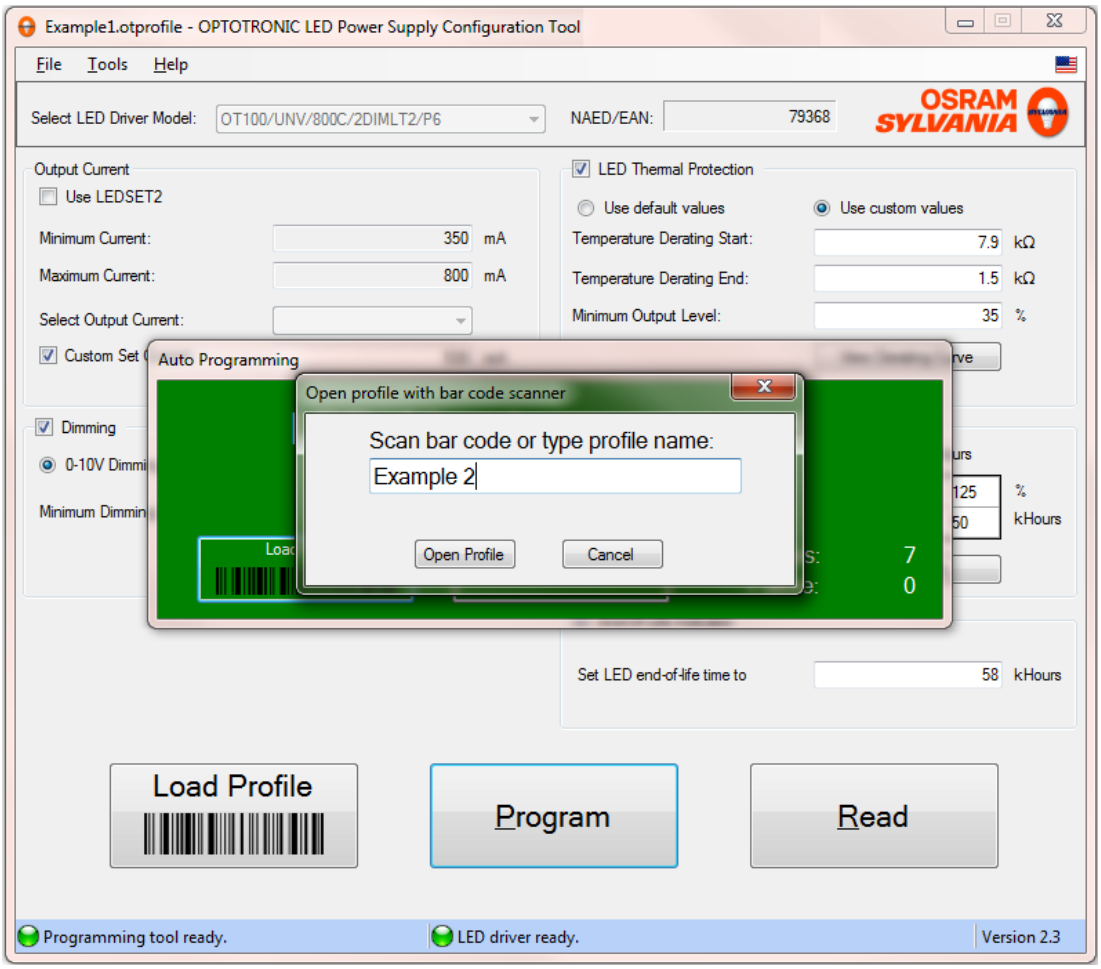


In case of unsuccessfully programmed LED power supplies the “Failure” count is increased. Any subsequent programming attempts will only increase the failure counter. Click OK to clear the condition and continue with programming as described.


Example1.otprofile - OPTOTRONIC LED Power Supply Configuration Tool
File
Tools
Help
Select LED Driver Model:
OT100/UNV/800C/2DIMLT2/P6
NAED/EAN:
79368
OSRAM SYLVANIA
Output Current
Use LEDSET2
Minimum Current:
350
mA
Maximum Current:
800
mA
Select Output Current:
Custom Set
LED Thermal Protection
Use default values
Use custom values
Temperature Derating Start:
7.9
kΩ
Temperature Derating End:
1.5
kΩ
Minimum Output Level:
35
%
Auto Programming
LED driver programming failed!
Click OK to continue.
Load Profile
OK
Success:
6
Failure:
1
Dimming
0-10V Dimmi
Minimum Dimmin
125
%
50
kHours
Set LED end-of-life time to
58
kHours
Load Profile
Program
Read
Programming tool ready.
LED driver not detected.
Version 2.3

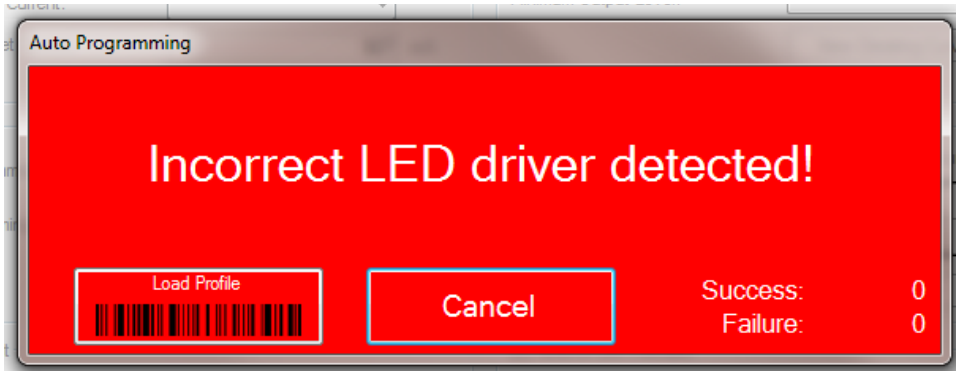
Step 5: If a new profile is to be programmed on to a LED power supply during programming, click the 'Load Profile' button in the Auto Programming window and follow steps 1 to 4 in this section





Step 6: Once finished Click the Cancel button to exit the Programming Mode

Note 6: In case of an incorrect driver connection during programming a windows message is prompted saying 'Incorrect LED driver detected'. Connecting a correct LED driver as per the profile will result in clearing the window and programming back to normal.

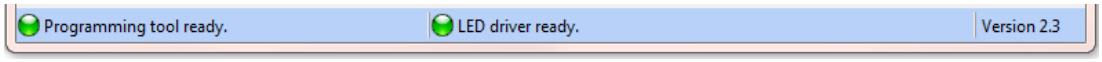


5.1.4. Read Operation

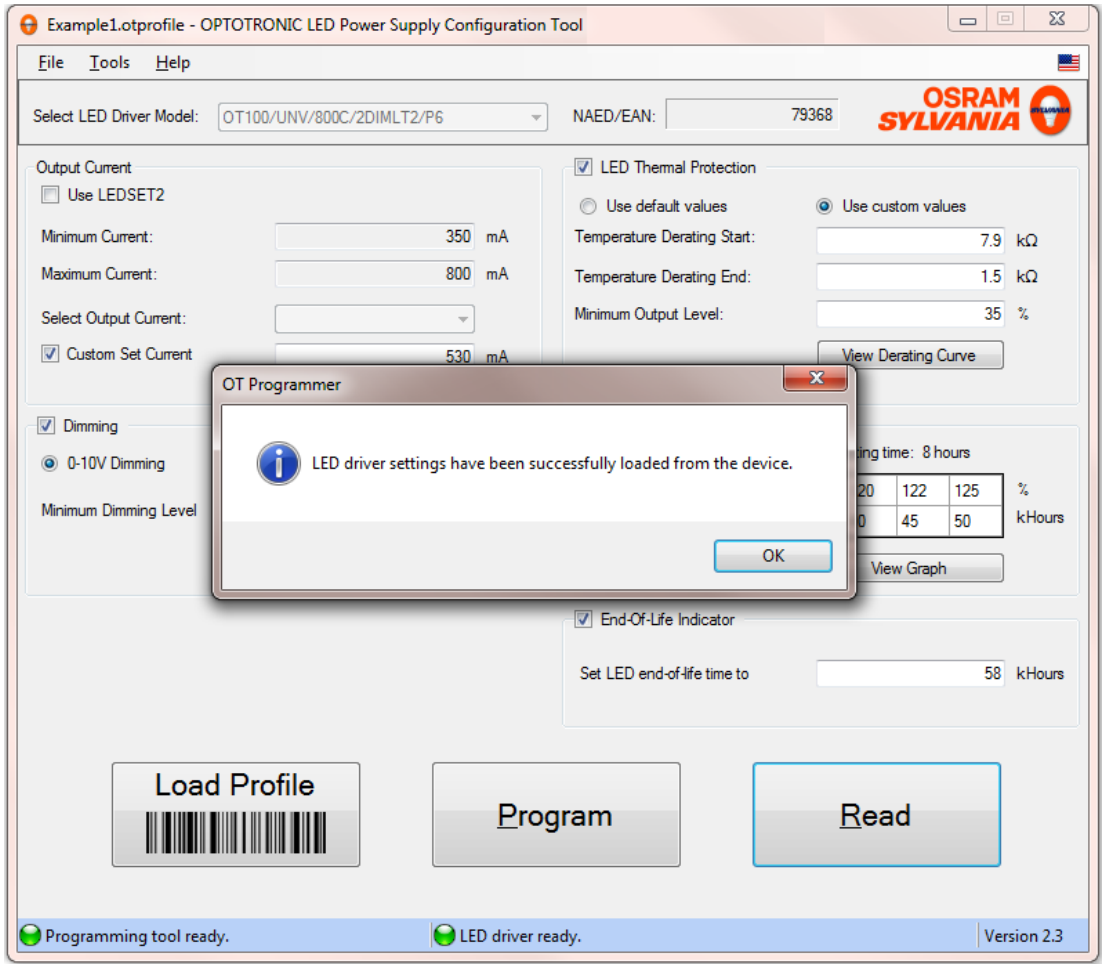
The Read operation will help the user to read the parameters/profile of the LED driver and use the information as needed. This is a manually activated feature. To Read the profile of a compatible LED driver follow the steps below

Step 1: Connect the LED driver as explained in Section 3 of this document

Step 2: Make sure that the user interface has detected the LED driver and status bar indicates 'LED driver ready'

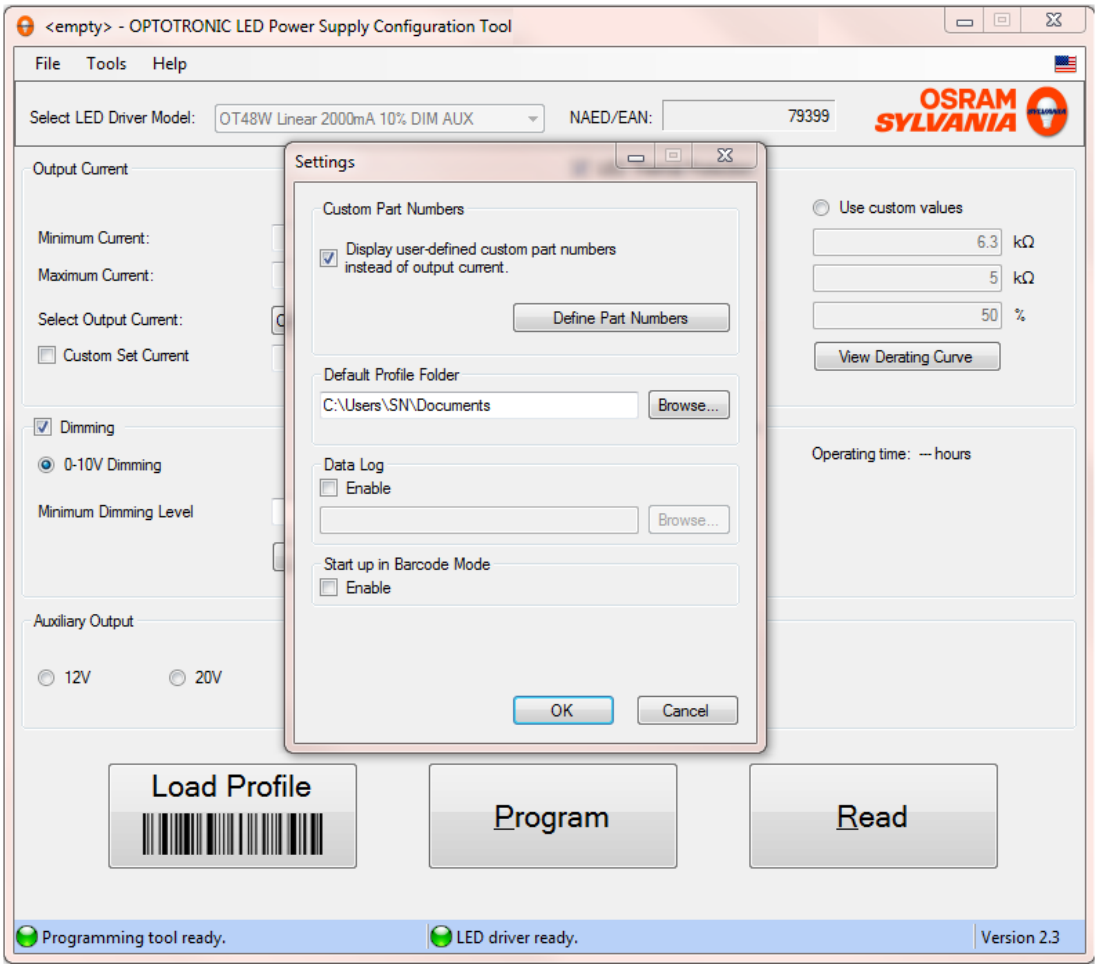


Step 3: Click the Read button on the interface and a pop-up opens indicating 'LED driver settings have been successfully loaded from the device."



5.1.5. Tools tab:

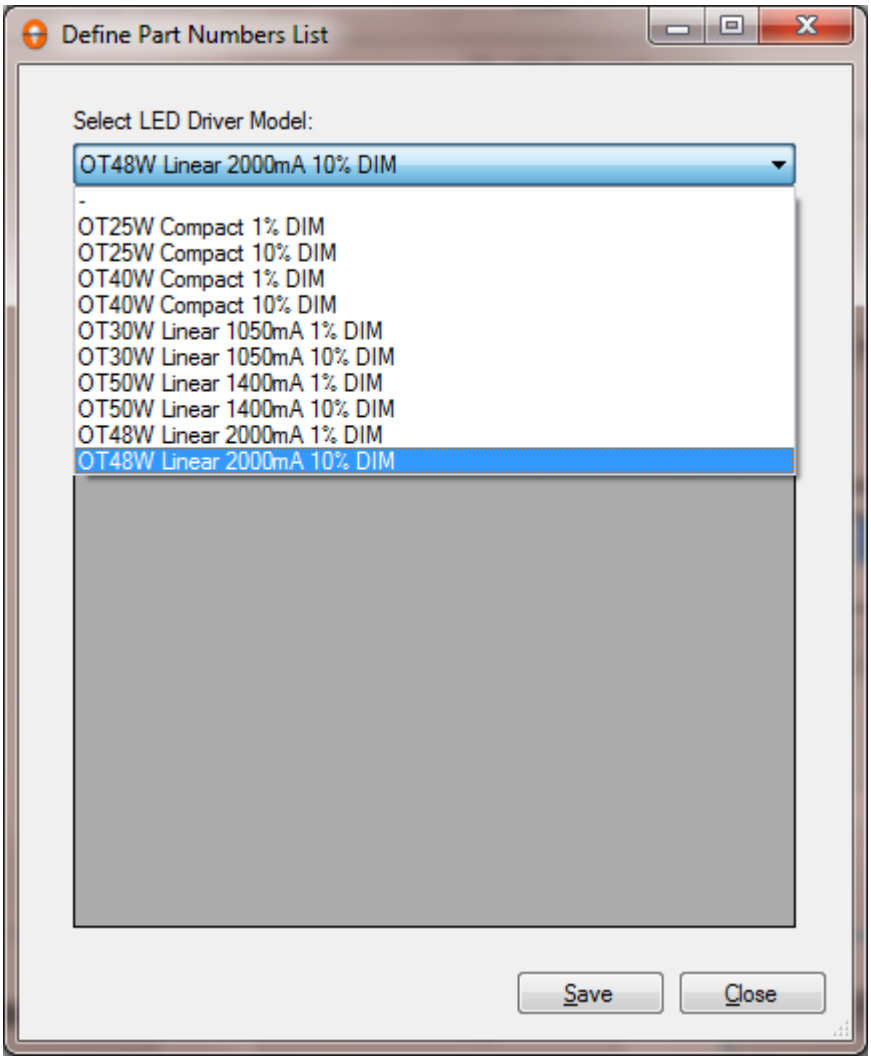
The Tools tab will help the user to create custom Part numbers, set a default profile folder and enable or disable the Data log.



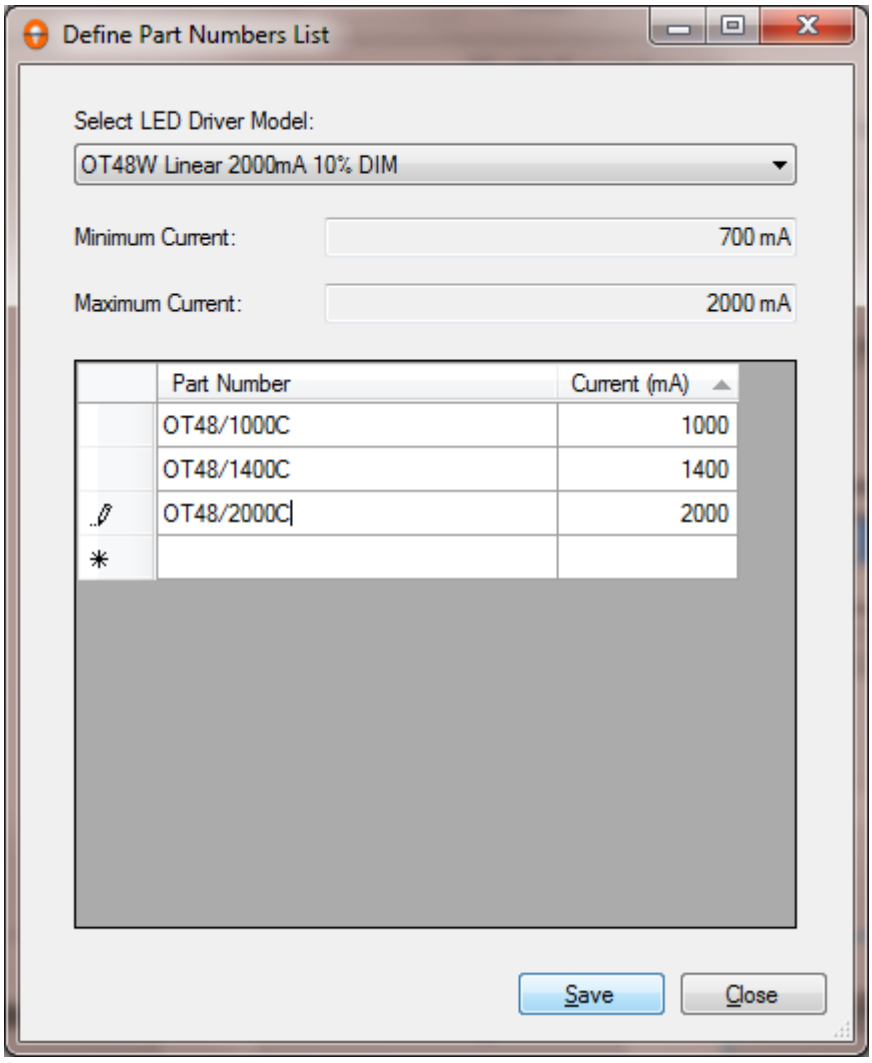
Settings: This command will allow the user to define part numbers for the compatible OPTOTRONIC LED power supplies. It allows the user to display the custom defined part numbers instead of output currents in the "Select Output Current" section of the user interface. Also, it helps to set the default profile folder for saving and restoring the Otprofile files. The end user can even enable or disable the data logging for the programming sequence which will be discussed under individual sections below.

5.1.5.1. Define Part numbers:

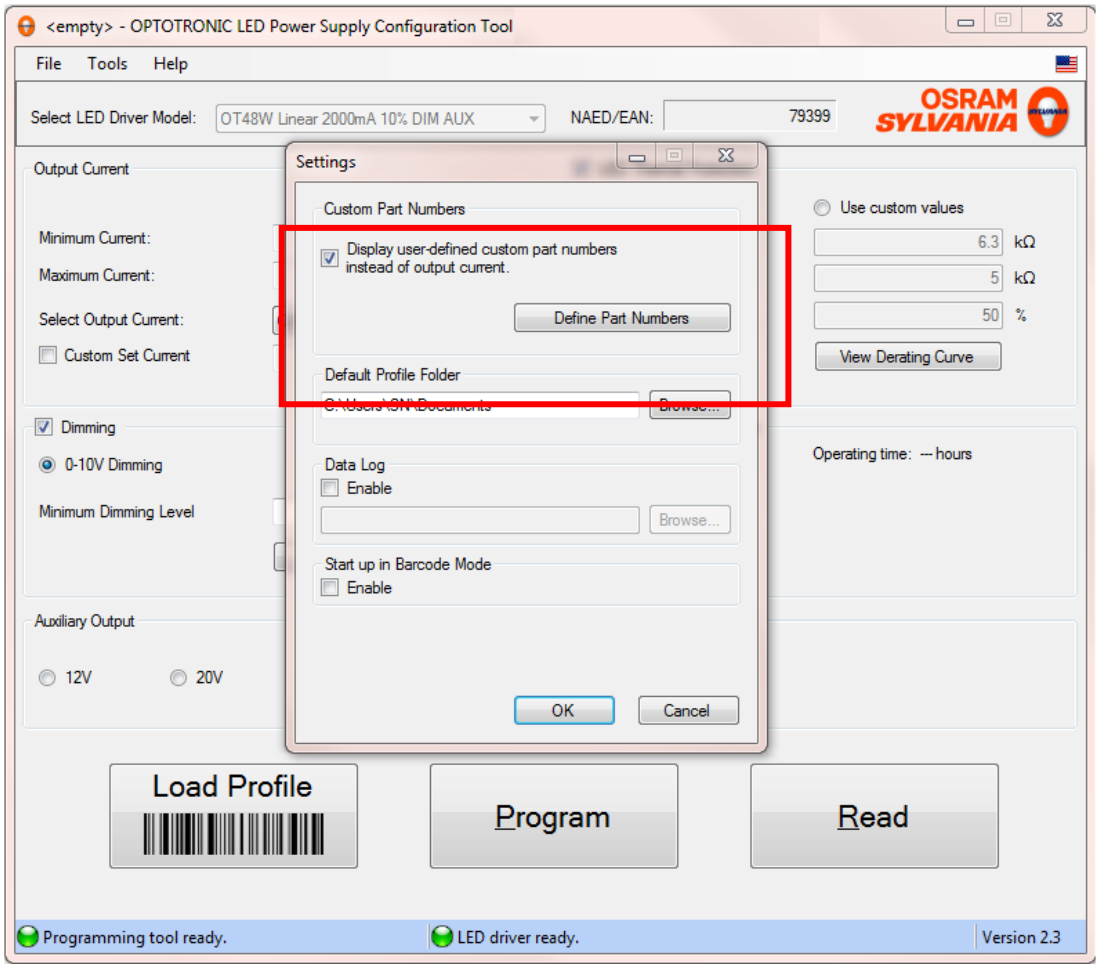
Step1: Select the LED driver model that needs to have custom defined part number from the drop down list

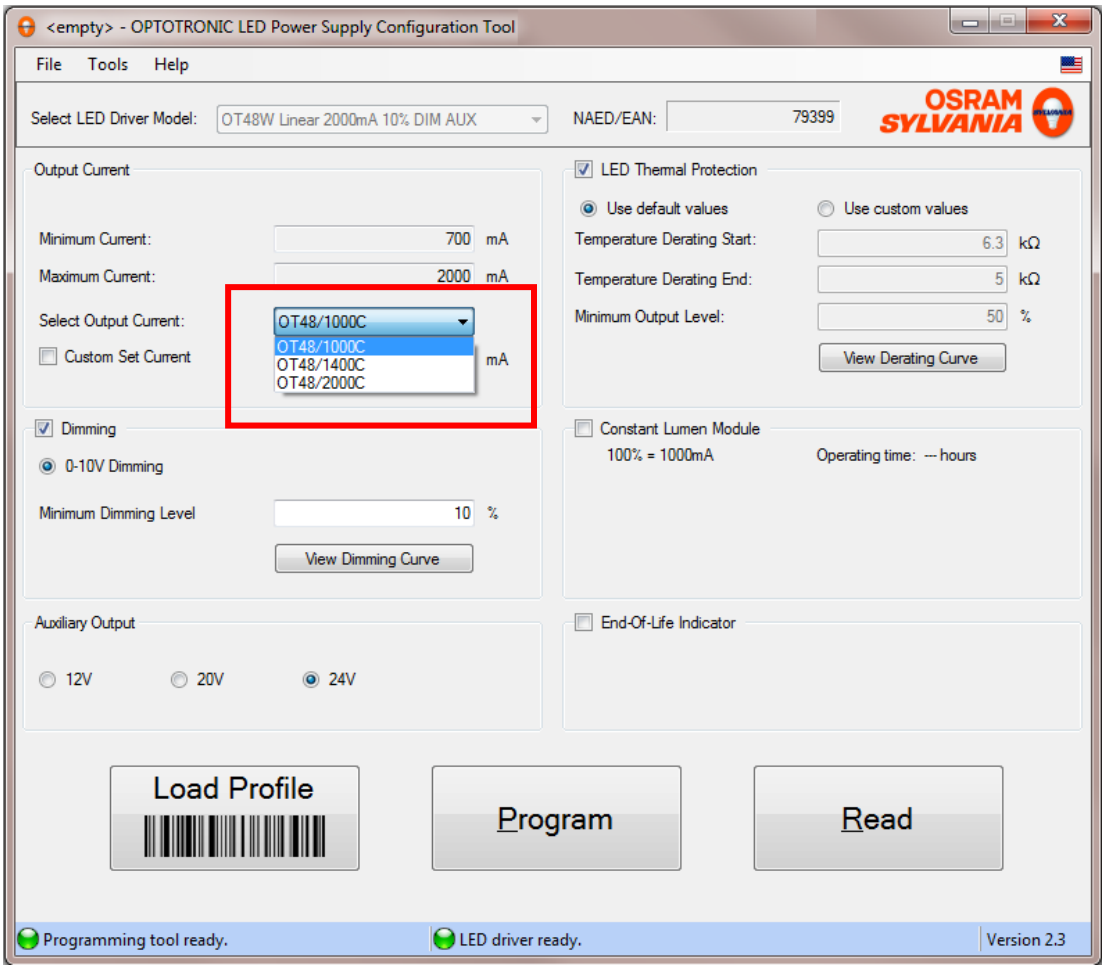


Step2: In the “Part number column” define the required part number. Input the required current in the “Current (mA)” column. For example- input OT48/1000C for 1000mA. Click “Save” to save the defined part number & close.



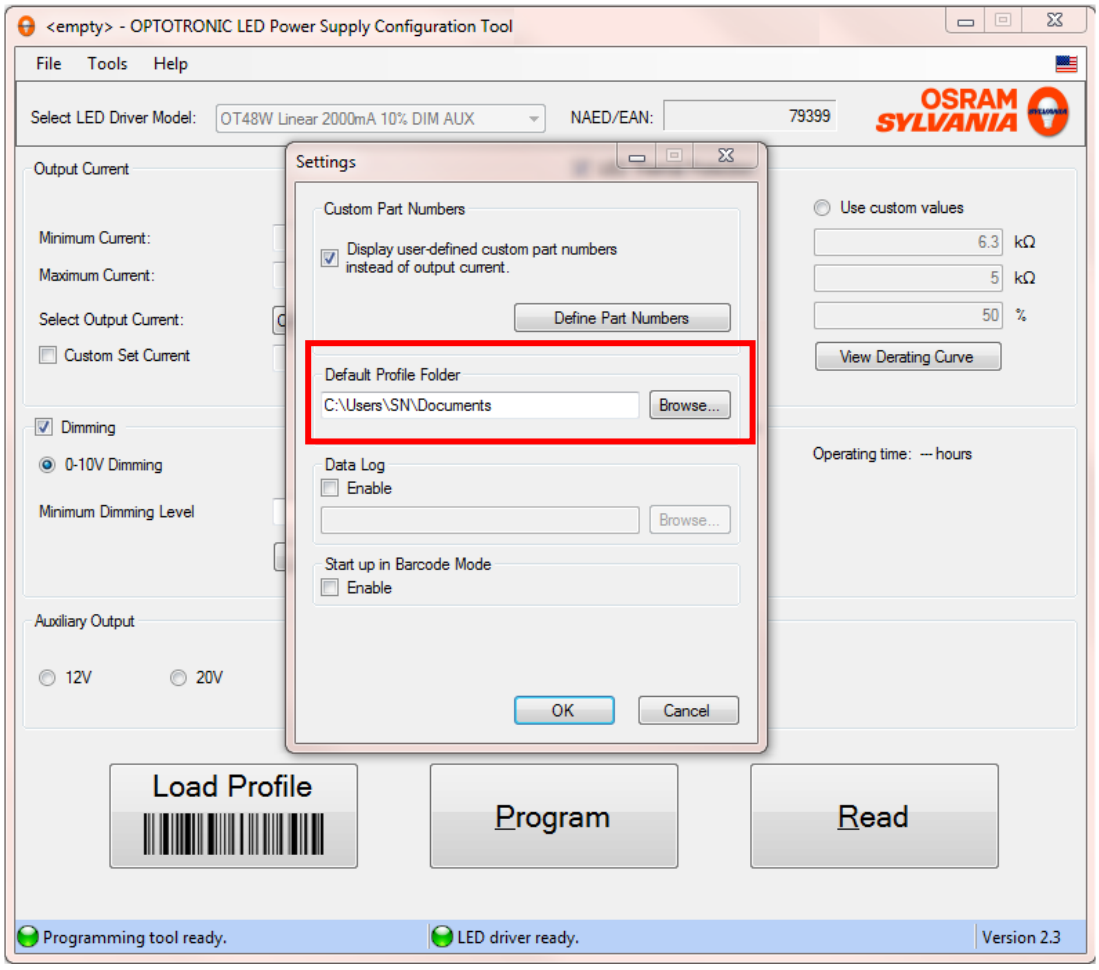
Check the box on the settings dialogue box to display the custom part numbers in the drop down list of “Select Output Current” as shown in below




<empty> - OPTOTRONIC LED Power Supply Configuration Tool
File
Tools
Help
Select LED Driver Model:
OT48W Linear 2000mA 10% DIM AUX
NAED/EAN:
79399
OSRAM SYLVANIA
Output Current
Minimum Current:
700
mA
Maximum Current:
2000
mA
Select Output Current:
OT48/1000C
OT48/1000C
OT48/1400C
OT48/2000C
Custom Set Current
mA
LED Thermal Protection
Use default values
Use custom values
Temperature Derating Start:
6.3
kΩ
Temperature Derating End:
5
kΩ
Minimum Output Level:
50
%
View Derating Curve
Dimming
0-10V Dimming
Minimum Dimming Level
10
%
View Dimming Curve
Constant Lumen Module
100% = 1000mA
Operating time: --- hours
Auxiliary Output
12V
20V
24V
End-Of-Life Indicator
Load Profile
Program
Read
Programming tool ready.
LED driver ready.
Version 2.3

5.1.5.2. Default Profile folder

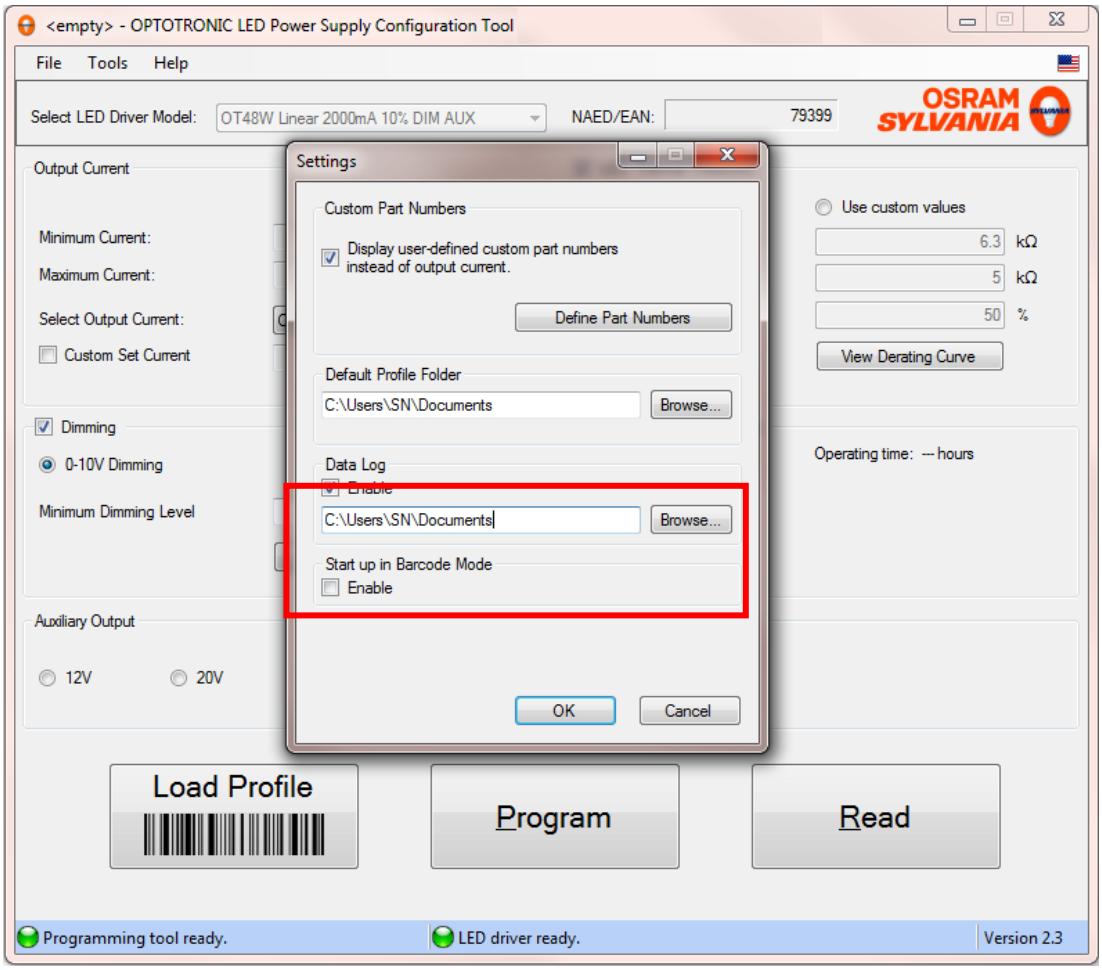
Setting the Default Profile folder enables the user to save the OTprofiles and retrieve them directly. The loading of a profile will be successful when it is available in this folder directory. Either a manual entry of profile name or using a Barcode scanner the path is set to this directory.



5.1.5.3. Data Log

Enabling the Data logging will help the user track the list of all the power supplies that have been programmed and export the data to a Microsoft Office Excel Comma Separated Values File (.csv).

The path for the .csv file should be directed using the 'Browse' feature of the windows.



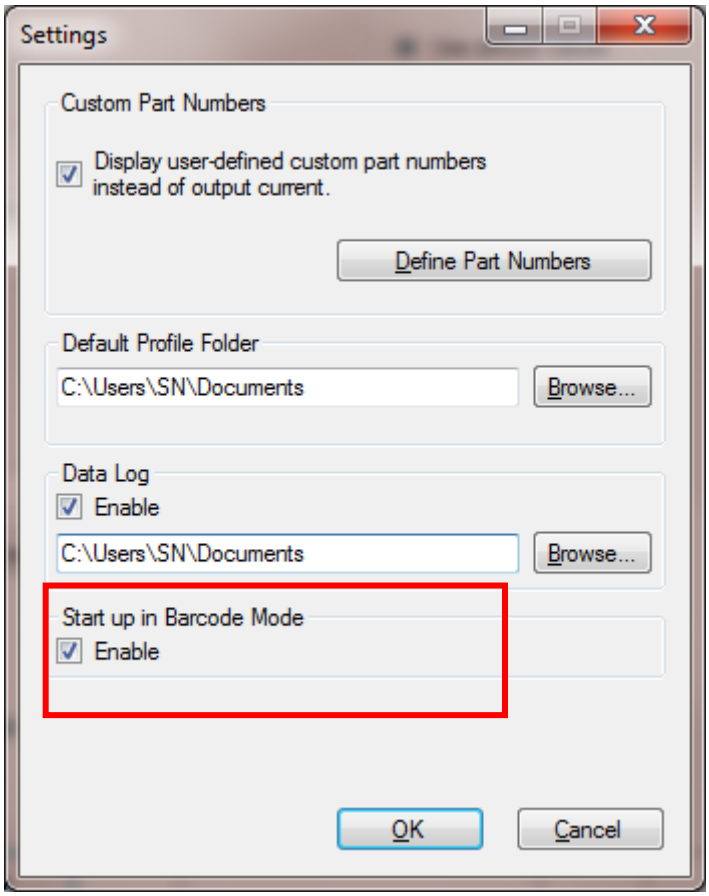
The exported file has all the parameters related to a particular driver. The log has the following fields and will be populated according to the profiles used.

- Timestamp - (date and time – per PC clock)
- Status – "Success" or "Fail"
- Serial number – LED Driver datecode per ZDD3019796 or N/A if can not be read or doesn't exist on the driver.
- NAED used for product identification and ordering
- Device Name = Product name as in 2.7.1
- Profile Name – empty when profile was not specified.

– Programmed Characteristics: output Current, Dimming Enabled, Dim Min Level, Aux Output, Thermal Protection, Derating parameters, Constant Lumen Activated, End of Life, AstroDIM)

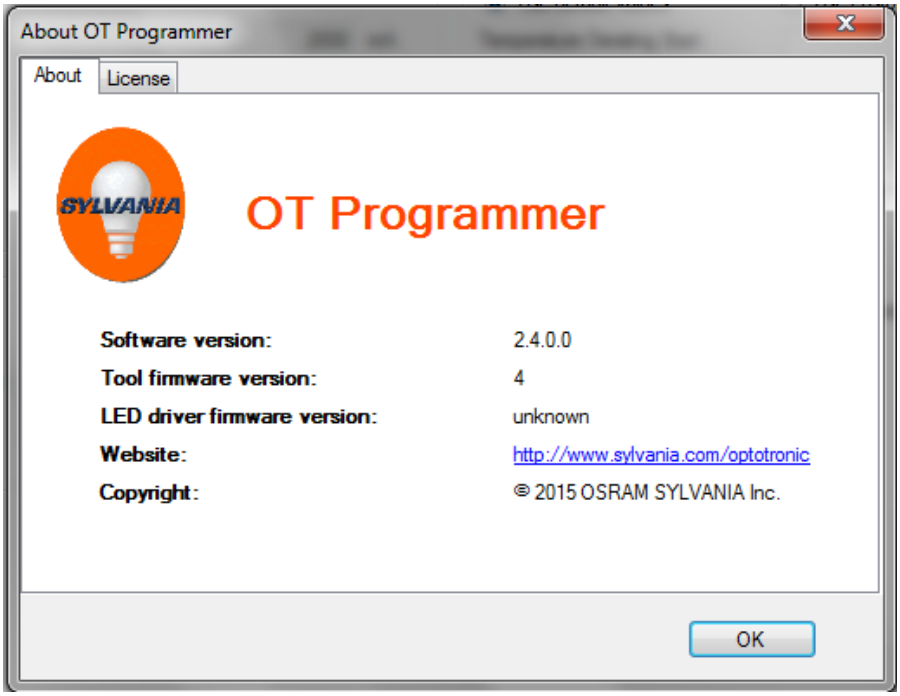
5.1.5.4. Startup in Barcode mode

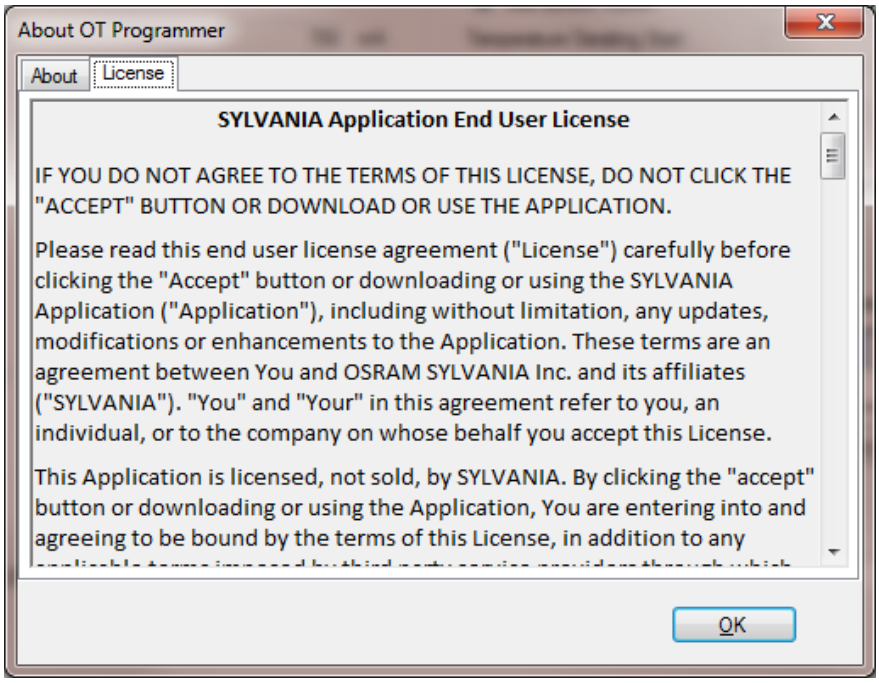
Enabling the 'Start up in Barcode mode' will launch the user interface where it prompts to scan bar code or type profile name during startup and load the OTProfile for quick access to programming the drivers with existing profiles.



5.1.6. Help tab

The help tab allows identifying the software version, tool firmware version, LED power supply firmware version, link to the Osram website & the license information for end user.

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About
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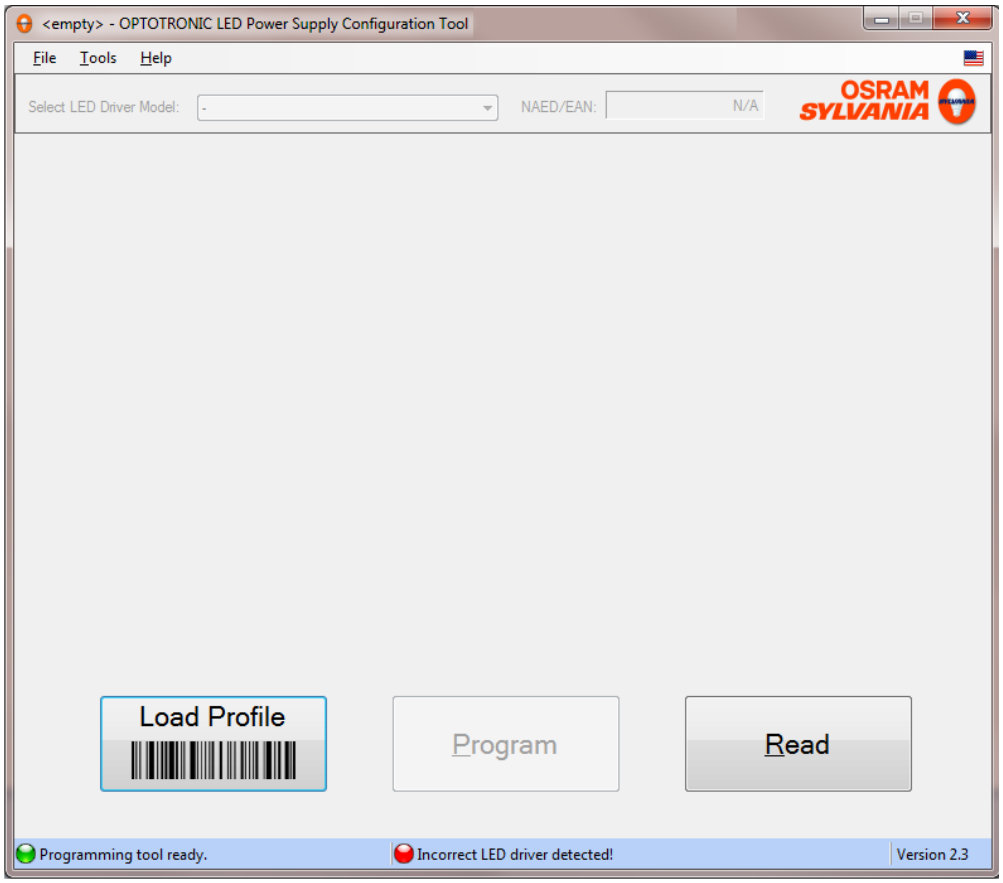
This Application is licensed, not sold, by SYLVANIA. By clicking the "accept" button or downloading or using the Application, You are entering into and agreeing to be bound by the terms of this License, in addition to any
OK

5.2. Production Mode

Production mode allows only programming an already saved configuration file and reading the memory / settings of the LED power supply

The following screen appears when the OPTORTONIC LED Power Supply Configuration Tool application is launched.



Make sure that the Programming tool is connected and is GREEN in the status bar of the interface.

Even if the LED driver is connected or not connected the status of the LED driver is RED until the configuration file is selected.

Until the configuration file is selected the status of the LED driver is either

- LED driver not detected – if no driver is connected
- Incorrect LED driver detected- if a driver is connected

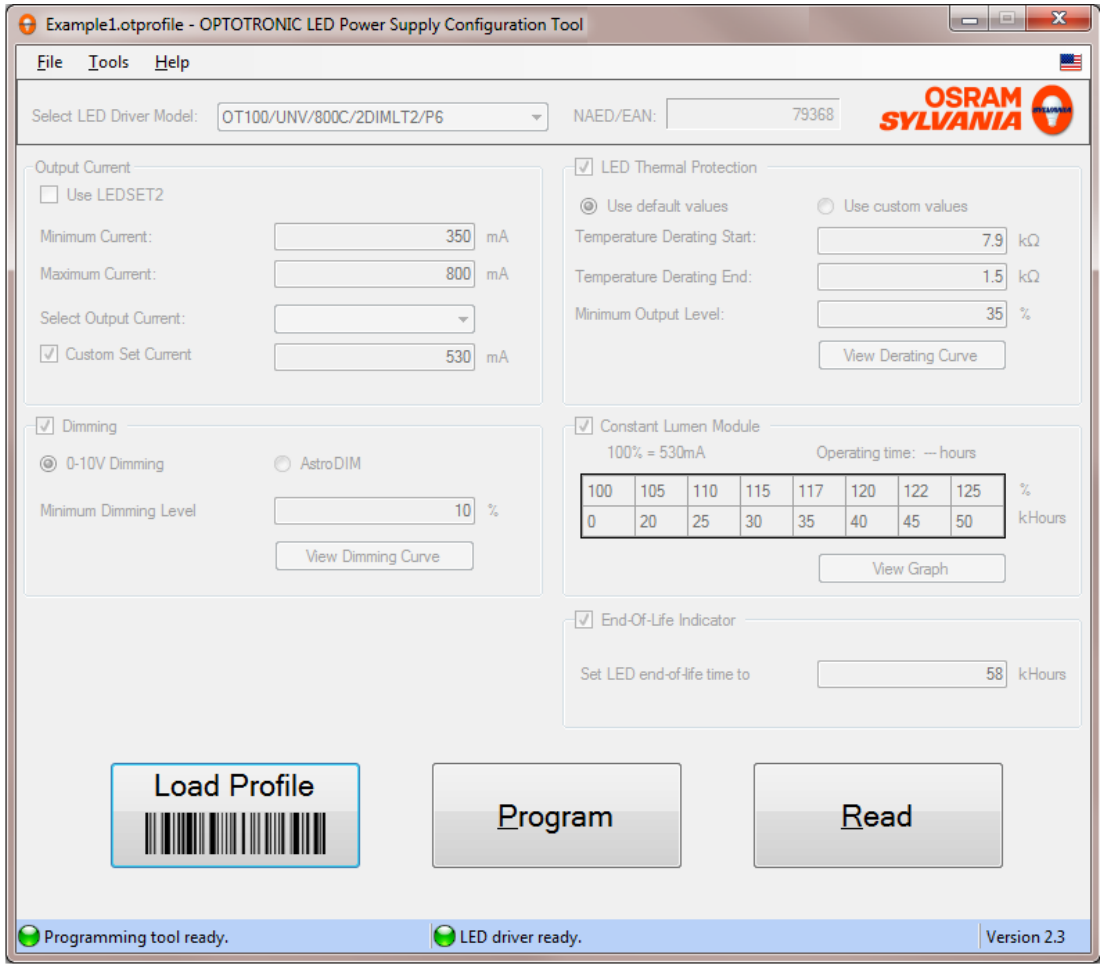
Follow steps below to configure the LED power supplies

Step1: An OTprofile can be opened in 2 different possible ways.

- In the Menu bar under File tab use 'Open Profile' (or)
- Click the 'Load Profile' in the Main window and input the profile name manually or using a barcode scanner.

Make sure the otprofiles exist in the path provided as defined in the section 'Default Profile folder'.

Step2: Connect the appropriate LED driver. On detection of correct LED driver, the LED driver status turns GREEN in the Status Bar. The options of 'Program' and 'Read' are available for execution.



Step3: Proceed to section 5.1.3. 'Programming the OPTOTRONIC LED power supply' for next steps.

6. Trouble-shooting

Fault	Cause	Remedy
Programming tool not detected	No connections to the PC	Connect the USB cable to a port of the PC
	No connections to the OT Programmer	Connect the USB cable to a port of the OT Programmer
LED Driver not detected	No connections to the OT Programmer	Make sure the connections to the LED driver/ OT Nest/Handheld tool are made
	Non programmable driver	Make sure the LED driver is a programmable OPTOTRONIC LED driver
LED driver programming failed	If the connection to LED driver is aborted during Program mode	Make sure that the LED driver is connected to the programming cable/pins for the duration of programming
Incorrect LED driver	If the LED driver connected doesn't match the selected LED driver model in Program mode	Make sure that the LED driver matches the selected model during program mode
Error while reading	If the connection to LED driver is aborted during Read mode	Make sure that the LED driver is connected to the programming cable/pins for the duration of READ is completed
Error Codes	Other	Contact Osram Technical Support.

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